

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H and PART 24 SUBPART E REQUIREMENT

OF

Product Name:	HydrINS IDU
Brand Name:	HYDREKA
Marketing Name:	GPRS Display Logger
Model No.:	080401-014 (AFFHYDE2) + 080401-011; 080401-013 (AFFHYDG2) + 080401-011; 080401-013 (AFFHYDG2); 080401-014 (AFFHYDE2) Ext. Power Supply (9~28V): 080401-014 (AFFHYDE2) + 080401-011: with BT 080401-013 (AFFHYDG2) + 080401-011: w/o BT Int./Ext. Power Supply (3.6V): 080401-013 (AFFHYDG2): w/o BT 080401-014 (AFFHYDE2): with BT
Model Difference:	
FCC ID:	2ADGH0804IDU
Report No.:	E2/2015/70020
Issue Date:	Mar. 04, 2016
FCC Rule Part:	2 , 22H & 24E
Prepared for:	Valeport Ltd St. Peter's Quay, Totnes, TQ95EW
Prepared by:	SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

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VERIFICATION OF COMPLIANCE

Applicant: Valeport Ltd
St. Peter's Quay, Totnes, TQ95EW

Product Name: HydrINS IDU

Brand Name: HYDREKA

Marketing Name: GPRS Display Logger

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080401-013 (AFFHYDG2): w/o BT
080401-014 (AFFHYDE2): with BT

Model Difference:

FCC ID: 2ADGH0804IDU

Report Number: E2/2015/70020

Date of test: Jul. 22, 2015 ~ Feb. 25, 2016

Date of EUT Received: Jul. 22, 2015

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory
The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Mar. 04, 2016

Jazz Huang / Asst. Supervisor**Prepared By:****Date:**

Mar. 04, 2016

Violetta Tang / Clerk**Approved By:****Date:**

Mar. 04, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2015/70020	Rev.00	Initial creation of document	Mar. 04, 2016

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	HydrINS IDU
Brand Name:	HYDREKA
Marketing Name:	GPRS Display Logger
Model No.:	080401-014 (AFFHYDE2) + 080401-011; 080401-013 (AFFHYDG2) + 080401-011; 080401-013 (AFFHYDG2); 080401-014 (AFFHYDE2)
Model Difference:	Ext. Power Supply (9~28V): 080401-014 (AFFHYDE2) + 080401-011: with BT 080401-013 (AFFHYDG2) + 080401-011: w/o BT Int./Ext. Power Supply (3.6V): 080401-013 (AFFHYDG2): w/o BT 080401-014 (AFFHYDE2): with BT
Product SW/HW version:	0804712 V7.09E / 0804519C4
Radio SW/HW version:	0804712 V7.09E / 0804519C4
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Probe:	Model No.: N/A, Supplier: N/A
Power Supply:	3.6Vdc from Internal Lithium / Alkaline / Lead Battery or 9~28Vdc from External Lithium / Alkaline / Lead Battery

GPRS:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GPRS 850	824.2 MHz– 848.8 MHz	33dBm
	GPRS 1900	1850.2MHz – 1909.8MHz	30dBm
Type of Emission:	GPRS 850	253KGXW	
	GPRS 1900	254KGXW	
IMEI:	01249700760926009		

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Antenna Information:

Antenna List:	Antenna 1: Type: Puck Antenna; Model No.: FCPT35167-SM-1K; Supplier: EAD Gain: 3dBi
	Antenna 2: Type: Monopole Antenna; Model No.: MHD1891; Supplier: Carant Gain: 5dBi
	Antenna 3: Type: Sleeve Dipole Antenna; Model No.: S-BLADE PENTABAND; Supplier: EAD Gain: 1.5dBi
	Antenna 4: Type: Dipole Antenna; Model No.: FINDIPMAG; Supplier: Badland Gain: 2dBi

Max ERP/EIRP measurement result:

*Antenna 1

	dBm		W
GPRS 850 Band	29.94	ERP	0.986
GPRS 1900 Band	28.00	EIRP	0.631

*Antenna 2

	dBm		W
GPRS 850 Band	26.66	ERP	0.463
GPRS 1900 Band	29.01	EIRP	0.796

*Antenna 3

	dBm		W
GPRS 850 Band	27.75	ERP	0.596
GPRS 1900 Band	23.11	EIRP	0.205

*Antenna 4

	dBm		W
GPRS 850 Band	30.08	ERP	1.019
GPRS 1900 Band	25.42	EIRP	0.348

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is HydrINS IDU supporting GSM & BT features, and below is details of information.

Product Feature	
Product Name:	HydrINS IDU
Brand Name:	HYDREKA
Marketing Name:	GPRS Display Logger
Model No.:	080401-014 (AFFHYDE2) + 080401-011; 080401-013 (AFFHYDG2) + 080401-011; 080401-013 (AFFHYDG2); 080401-014 (AFFHYDE2)
Model Difference:	Ext. Power Supply (9~28V): 080401-014 (AFFHYDE2) + 080401-011: with BT 080401-013 (AFFHYDG2) + 080401-011: w/o BT Int./Ext. Power Supply (3.6V): 080401-013 (AFFHYDG2): w/o BT 080401-014 (AFFHYDE2): with BT
FCC ID	2ADGH0804IDU
GSM Operating Band(s)	GSM 850 / 1900MHz
GPRS / EGPRS Multi Slot Class	Class 10
Bluetooth Version	V4.0 dual mode + HS

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24.

ANSI / TIA / EIA 603C-C-2004

KDB971168 D01 Power Meas license Digital System v02r01

KDB941225 of the Output power Procedure of (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

1.4. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333. (TAF code 0513)

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5.

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

According to measurement procured TIA/EIA 603C, The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

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2.4. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation example with cable loss and attenuator.

Low Band: Offset = RF cable loss (dB) + attenuation factor (dB) = 14.3(dB)

High Band: Offset = RF cable loss (dB) + attenuation factor (dB) = 14(dB)

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GPRS 850	12V	1000
GPRS 1900	12V	900

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2.6. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted & Radiated)

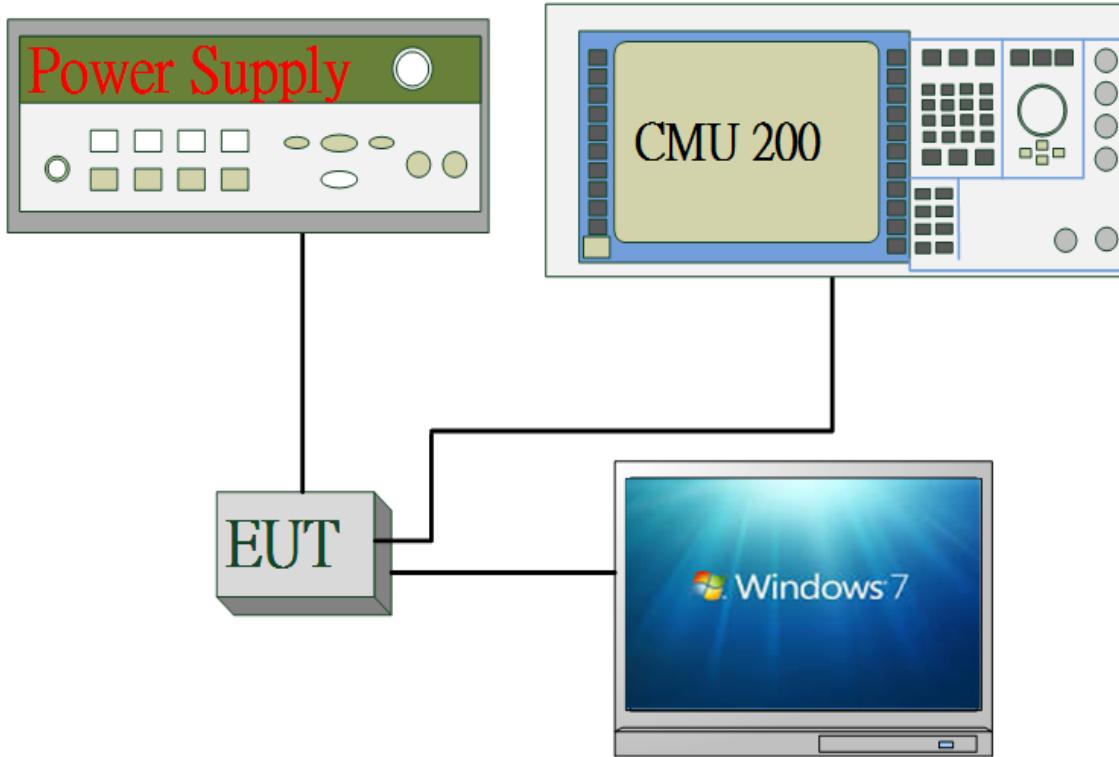


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6201107337	shielded	Un-shielded
3.	DC Power Supply	Agilent	E3640A	MY53140006	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c)	ERP/ EIRP measurement	Compliant
§2.1049(h)	Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	Compliant
§24.232(d)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.
Pre-Scan on dipole antennas (Supplier: Carant; Supplier: EAD; Supplier: Badland) for the ERP/EIRP and Radiated Emission tests, and the worst case is Supplier: Carant antenna.

Following channel(s) was (were) selected for the final test as listed below:

BAND	ERP/EIRP	RADIATED EMISSION
GPRS 850	E1 / H / E2-plan	E1 / H / E2-plan
GPRS 1900	E1 / H / E2-plan	E1 / H / E2-plan

GSM/GPRS MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	128 to 251	128, 190, 251	GPRS 850
EIRP	512 to 810	512, 661, 810	GPRS 1900
FREQUENCY STABILITY	128 to 251 512 to 810	190 661	GPRS 850 GPRS 1900
OCCUPIED BANDWIDTH	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS 850 GPRS 1900
PEAK TO AVERAGE RATIO	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS 850 GPRS 1900
BAND EDGE	128 to 251 512 to 810	128, 251 512, 810	GPRS 850 GPRS 1900
CONDUCTED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS 850 GPRS 1900
RADIATED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GPRS 850 GPRS 1900

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization =+/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz - 30MHz: +/- 2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz - 30MHz: +/- 2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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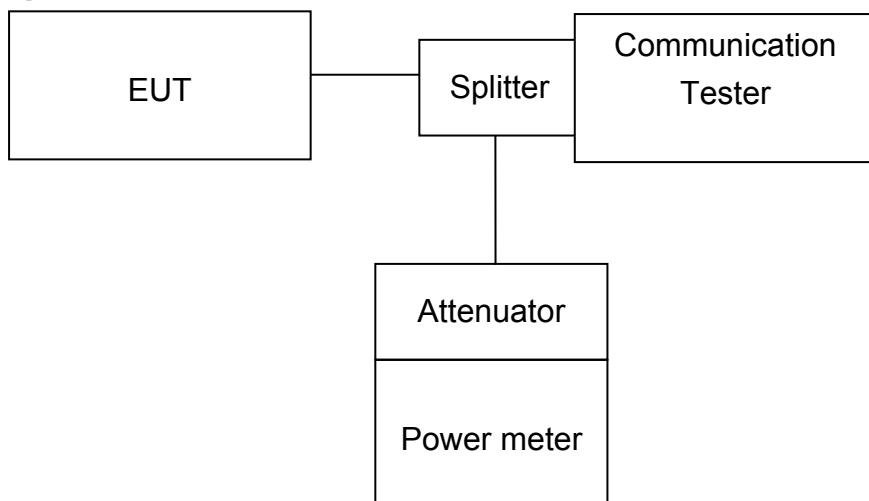
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

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6.4. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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6.5. Measurement Result

RF Conducted Output Power

GPRS (GMSK; 8-PSK) Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	32.80	32.60	32.70	32.50
	836.6	190	33.00	32.80	32.80	32.60
	848.8	251	33.00	32.90	32.90	32.80
GPRS 1900	1850.2	512	29.40	29.20	29.30	29.10
	1880.0	661	29.50	29.30	29.40	29.20
	1909.8	810	29.50	29.30	29.40	29.20

Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	28.9	27.5	24.2	23.5	21.5	19.5	17.5	15.7	13.7

PCL	9	10	11	12	13	14	15
Output power (dBm)	12.3	10.2	8.3	6.1	4.2	2.3	0.5

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

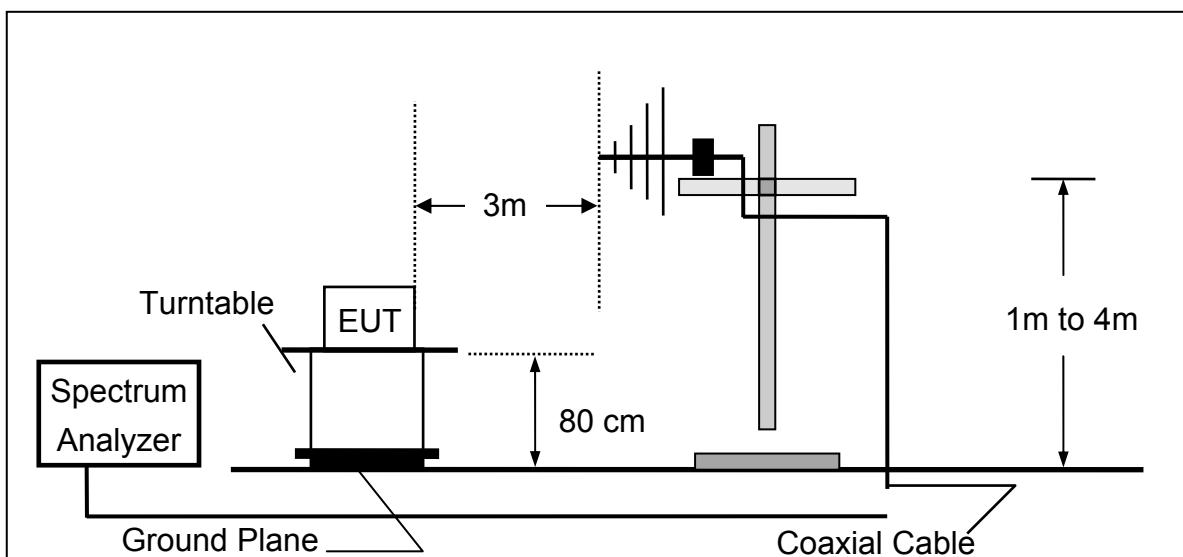
7.1. Standard Applicable

FCC 22.913(a) Mobile station is limited to 7W.

FCC 24.232(b) Mobile station is limited to 2W.

7.2. Test SET-UP

(A) Radiated Power Test Set-Up, Frequency Below 1000MHz



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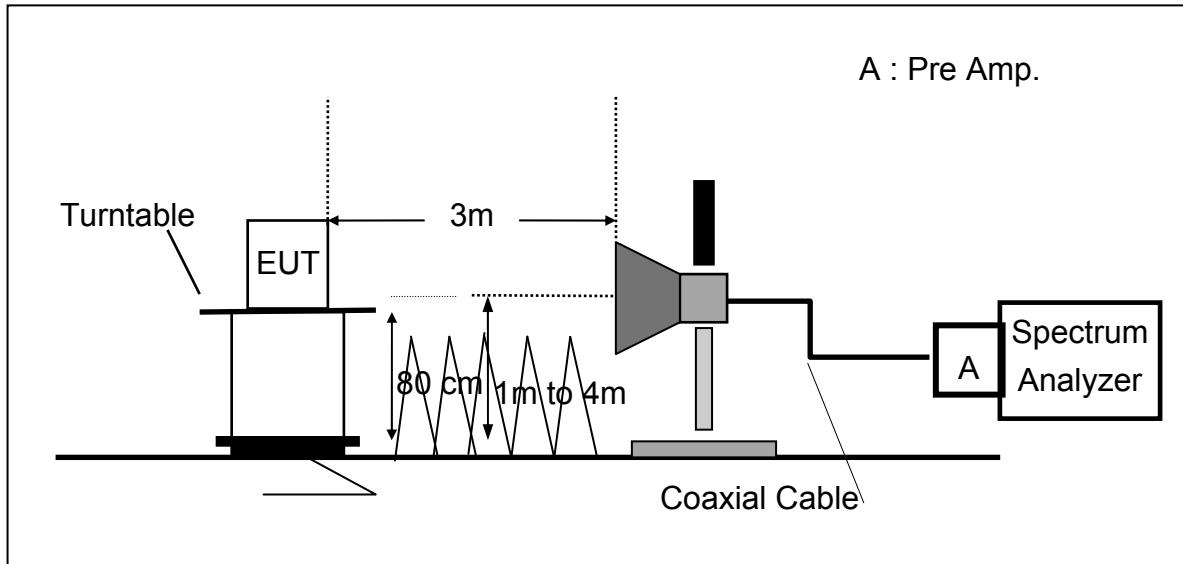
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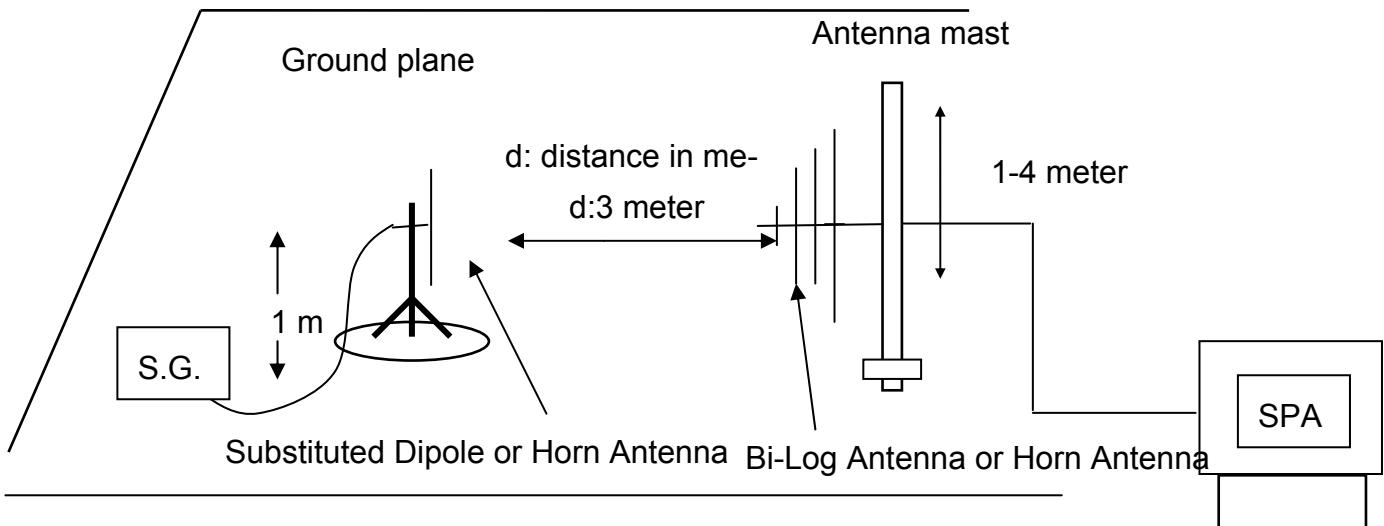
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
3. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
6. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBD)} - \text{Cable Loss (dB)}$
7. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBD)} - \text{Cable Loss (dB)}$
8. Spectrum setting:
 - (1) Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and $VBW > =3xRBW$.
 - (2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.
Set frequency = nominal signal center frequency;
Set span = 2 X occupied BW;
Set RBW $\approx 1\sim 5\%$ of the span, not to exceed 1 MHz
Set VBW = 3 x RBW;
Select average power (RMS) detector
Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweep time = $601 \times 10^{-3} = 6s$.)

Activate trace averaging routine over a minimum of 10 sweeps;
Activate marker/span pair and set span = signal or channel bandwidth;
Activate the band/interval power marker function;
Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of $10 \times \log(TBW/RBW)$, where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

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7.4. Measurement Equipment Used

SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015
Broadband Antenna	TESEQ	CBL 6112D	35243	11/14/2014	11/13/2015
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015
Horn Antenna	ETS-Lindgren	3160-09	00117911	11/13/2014	11/12/2015
Horn Antenna	ETS-Lindgren	3160-09	00117910	11/13/2014	11/12/2015
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2015	11/08/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	ETS-Lindgren	3117	00143279	11/05/2015	11/04/2016
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2015	12/10/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-26	100780	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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7.5. Measurement Result: (Peak) –using option of peak measurement

*Antenna 1

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	824.2	128	V	18.90	5.13	-3.50	20.53	38.45
			H	25.14	5.13	-3.50	26.77	38.45
	836.6	190	V	20.91	5.09	-3.40	22.60	38.45
			H	27.30	5.09	-3.40	28.99	38.45
	848.8	251	V	22.76	5.05	-3.54	24.27	38.45
			H	28.43	5.05	-3.54	29.94	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	1850.2	512	V	24.66	5.35	-5.35	24.66	33.01
			H	27.32	5.35	-5.35	27.32	33.01
	1880.0	661	V	26.20	5.28	-5.41	26.07	33.01
			H	28.13	5.28	-5.41	28.00	33.01
	1909.8	810	V	22.96	5.21	-5.39	22.78	33.01
			H	25.10	5.21	-5.39	24.92	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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*Antenna 2

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	824.2	128	V	25.04	5.13	-3.51	26.66	38.45
			H	20.24	5.13	-3.51	21.86	38.45
	836.6	190	V	22.52	5.09	-3.39	24.22	38.45
			H	18.45	5.09	-3.39	20.15	38.45
	848.8	251	V	21.98	5.05	-3.54	23.49	38.45
			H	18.72	5.05	-3.54	20.23	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	1850.2	512	V	27.45	5.35	-5.35	27.45	33.01
			H	23.51	5.35	-5.35	23.51	33.01
	1880.0	661	V	29.14	5.28	-5.41	29.01	33.01
			H	23.31	5.28	-5.41	23.18	33.01
	1909.8	810	V	28.95	5.21	-5.39	28.77	33.01
			H	20.91	5.21	-5.39	20.73	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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*Antenna 3

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	824.2	128	V	25.63	5.48	-3.36	27.75	38.45
			H	25.22	5.48	-3.36	27.34	38.45
	836.6	190	V	23.56	5.46	-3.28	25.74	38.45
			H	25.06	5.46	-3.28	27.24	38.45
	848.8	251	V	18.48	5.45	-3.1	20.83	38.45
			H	25.3	5.45	-3.1	27.65	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	1850.2	512	V	12.39	9.59	-5.05	16.93	33.01
			H	18.07	9.59	-5.05	22.61	33.01
	1880.0	661	V	11.87	9.69	-5.15	16.41	33.01
			H	18.57	9.69	-5.15	23.11	33.01
	1909.8	810	V	10.02	9.79	-5.13	14.68	33.01
			H	17.8	9.79	-5.13	22.46	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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*Antenna 4

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	824.2	128	V	21	5.48	-3.38	23.1	38.45
			H	26.14	5.48	-3.38	28.24	38.45
	836.6	190	V	21.36	5.46	-3.28	23.54	38.45
			H	27.9	5.46	-3.28	30.08	38.45
	848.8	251	V	19.85	5.45	-3.09	22.21	38.45
			H	27.47	5.45	-3.09	29.83	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	1850.2	512	V	13.08	9.59	-5.04	17.63	33.01
			H	20.87	9.59	-5.04	25.42	33.01
	1880.0	661	V	12.2	9.69	-5.15	16.74	33.01
			H	20.25	9.69	-5.15	24.79	33.01
	1909.8	810	V	11.67	9.79	-5.12	16.34	33.01
			H	19.58	9.79	-5.12	24.25	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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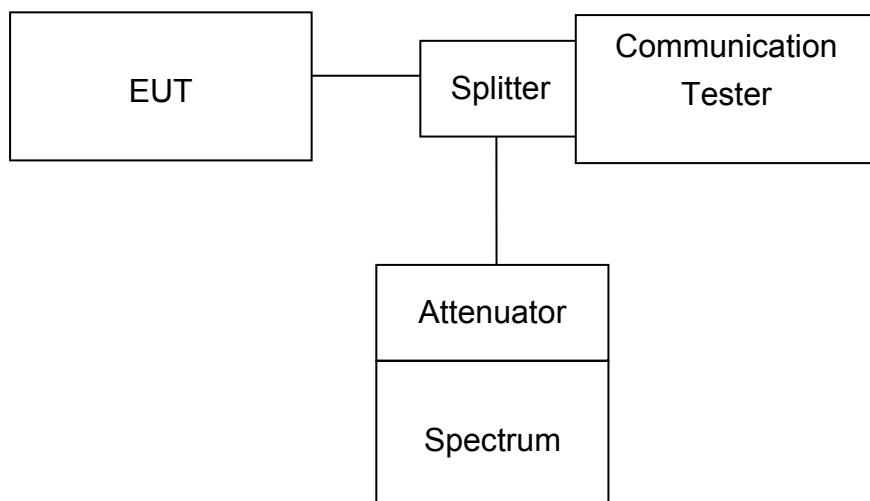
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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

8.2. Test Set-up



8.3. Measurement Procedure

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

NOTE: For the plot of bandwidth measurement, the marker of the 99% bandwidth is diamond-shape while the marker of the 26dB BW is arrow-mark

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8.4. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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8.5. Measurement Result

99% Bandwidth

Frequency (MHz)	CH	99% Bandwidth (kHz)
		GPRS 850
824.20	128	250.53
836.60	190	238.85
848.80	251	252.67

Frequency (MHz)	CH	99% Bandwidth (kHz)
		GPRS 1900
1850.20	512	253.91
1880.00	661	250.60
1909.80	810	245.48

26dB Bandwidth

Frequency (MHz)	CH	26dB Bandwidth (kHz)
		GPRS 850
824.20	128	316.0
836.60	190	315.8
848.80	251	300.0

Frequency (MHz)	CH	26dB Bandwidth (kHz)
		GPRS 1900
1850.20	512	312.8
1880.00	661	305.0
1909.80	810	319.4

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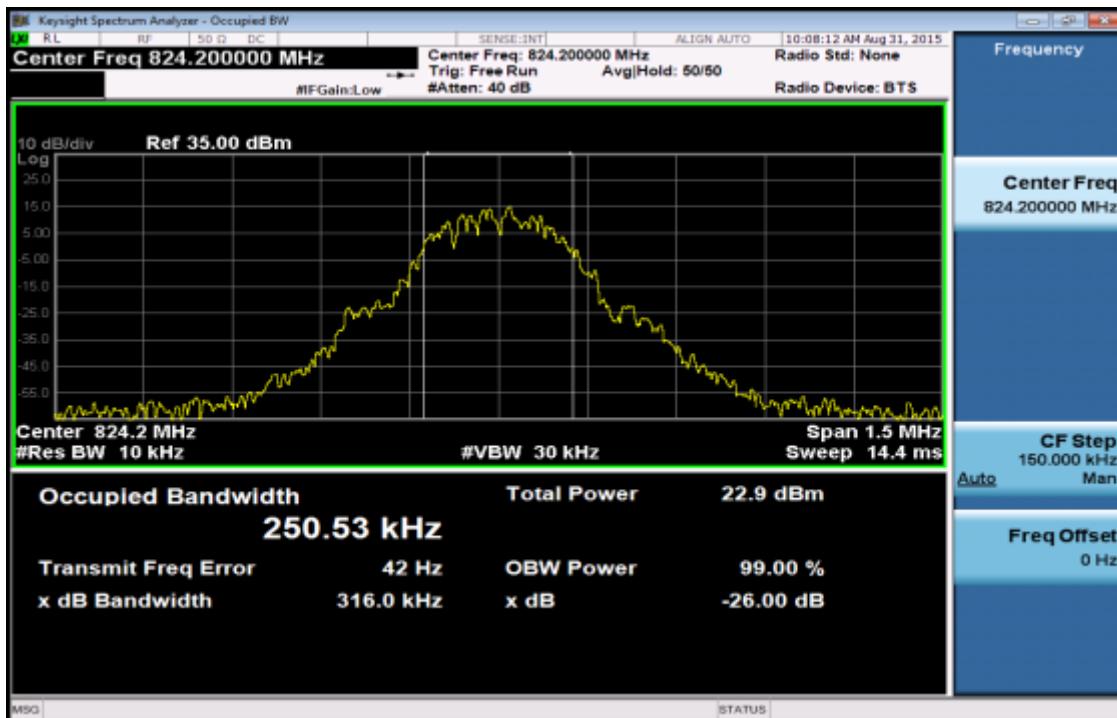
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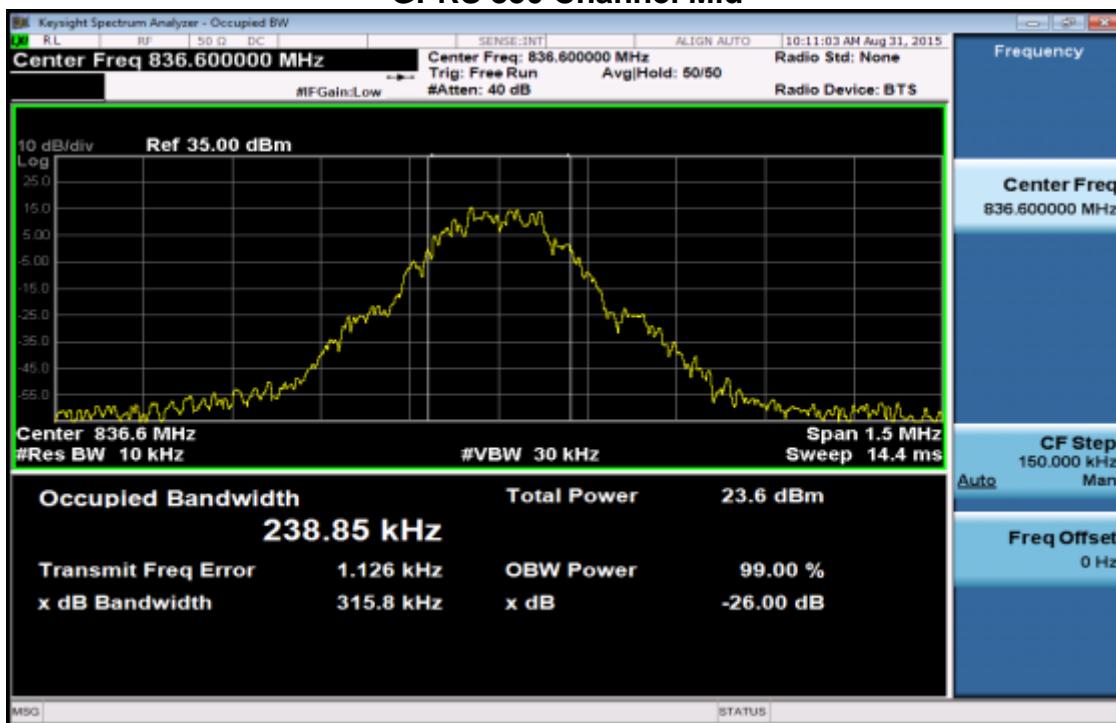
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99% & 26dB Bandwidth Test Data

GPRS 850 Channel Low



GPRS 850 Channel Mid

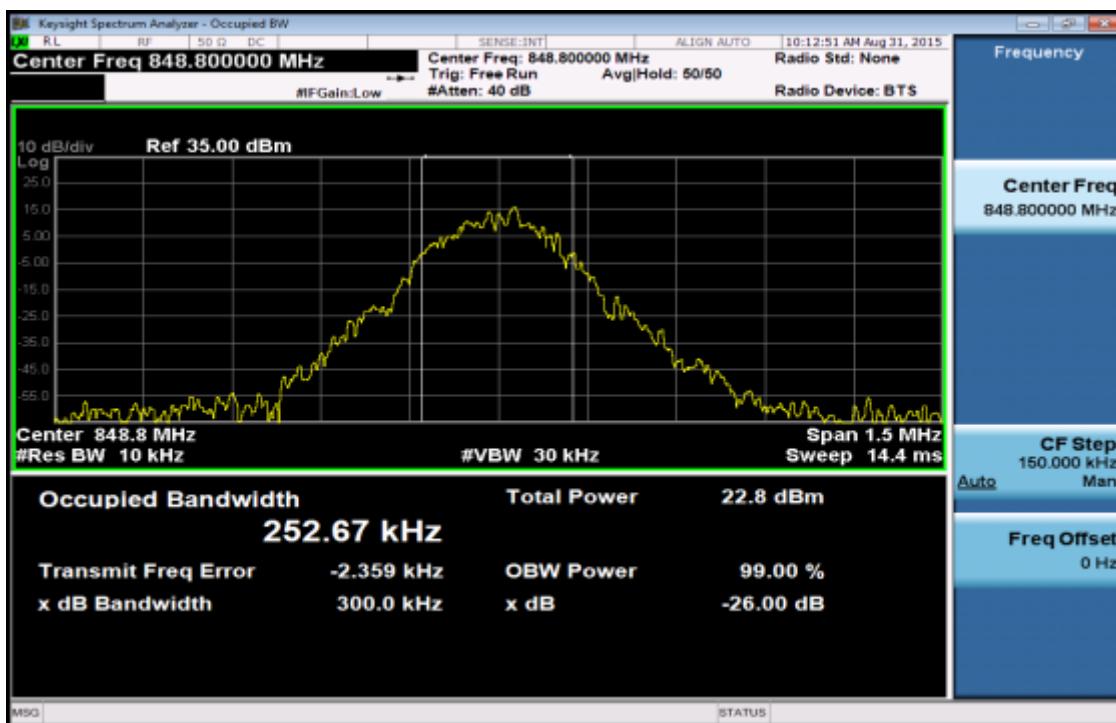


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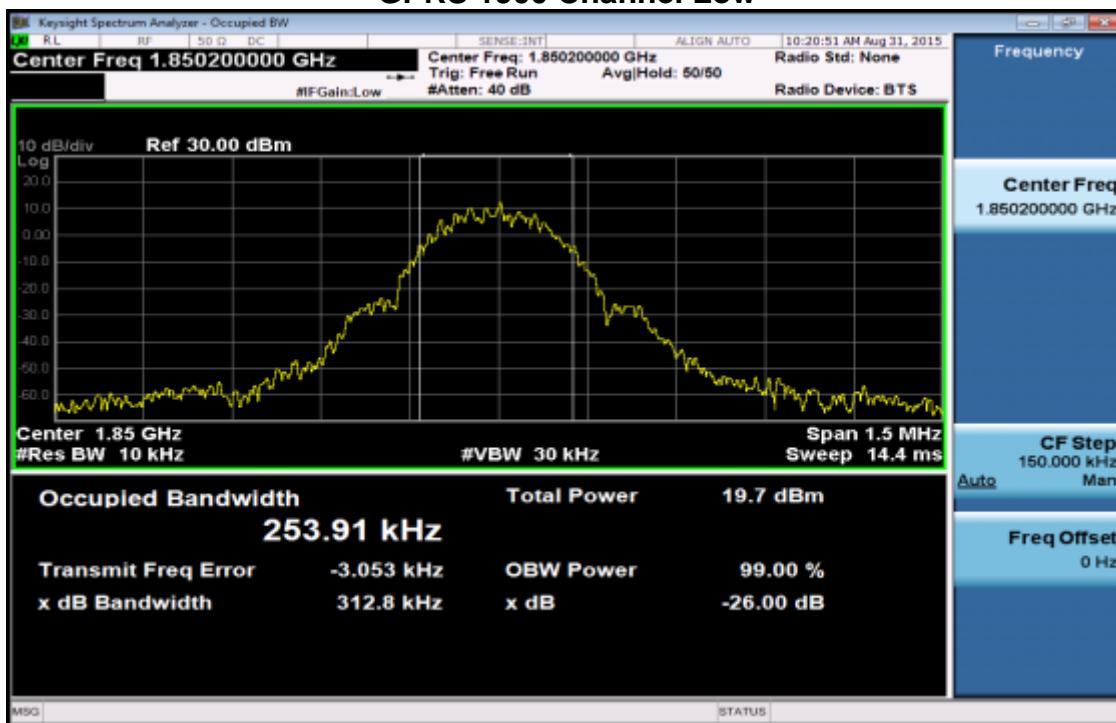
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GPRS 850 Channel High



GPRS 1900 Channel Low

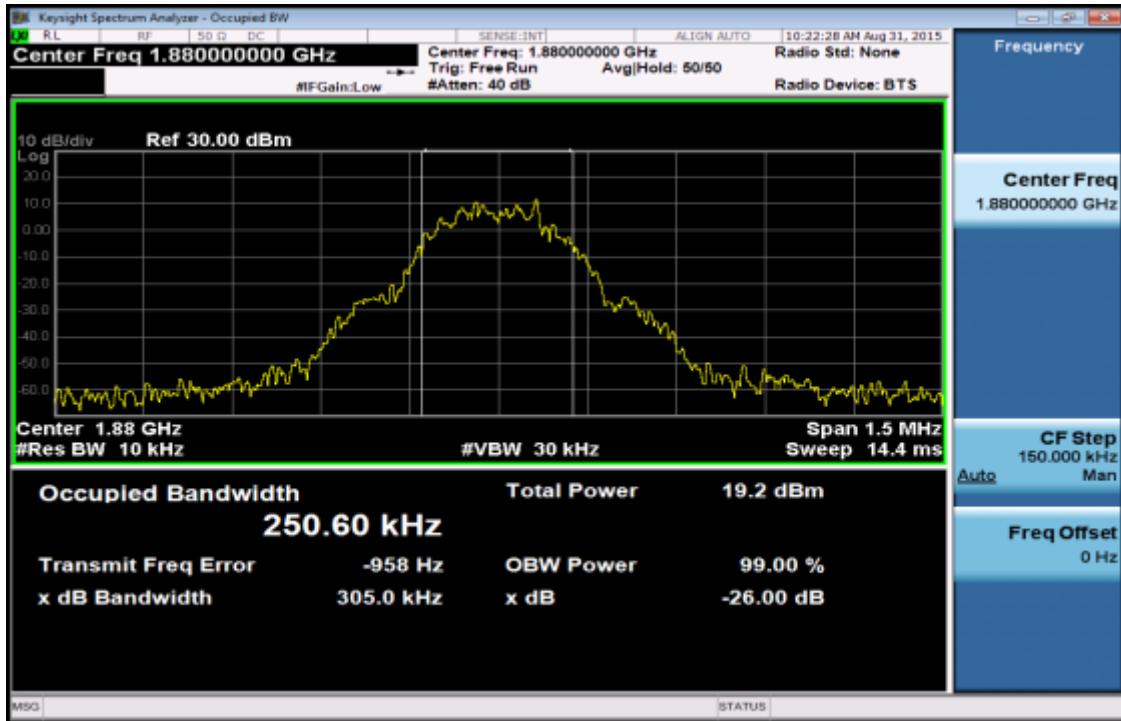


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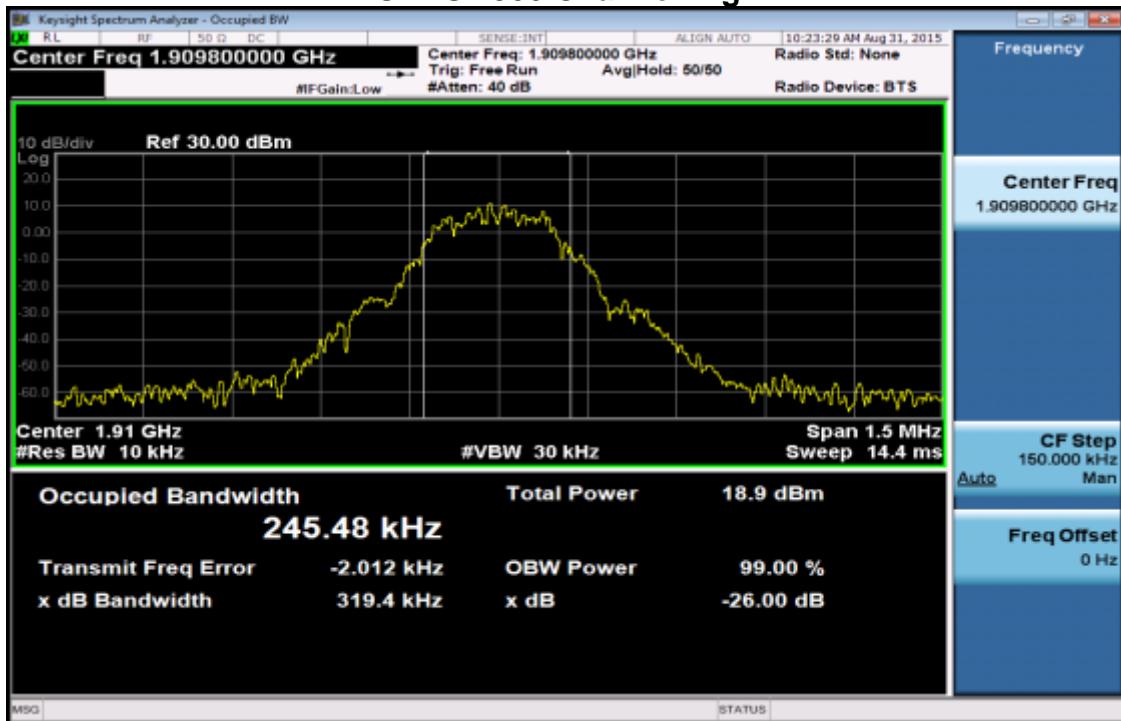
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GPRS 1900 Channel Mid



GPRS 1900 Channel High



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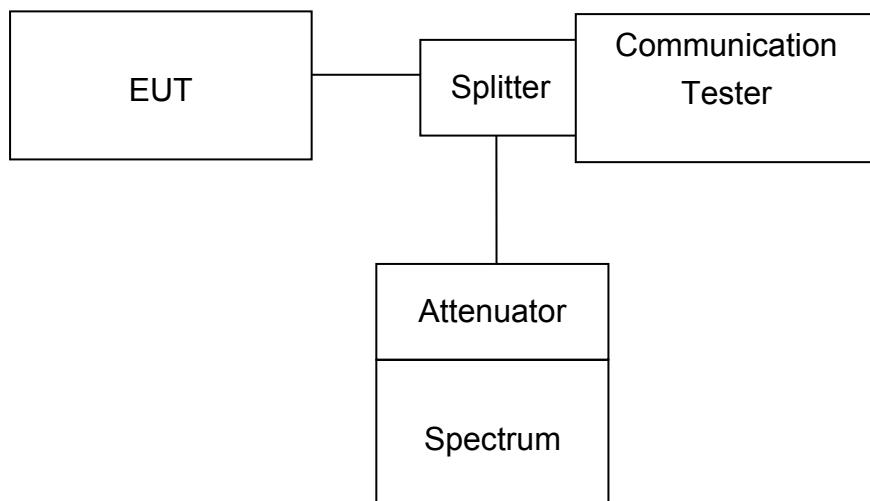
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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §22.917(a), §24.238(a) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

9.2. Test SET-UP



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9.3. Measurement Procedure

Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW \geq 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

9.4. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

9.5. Measurement Result:

Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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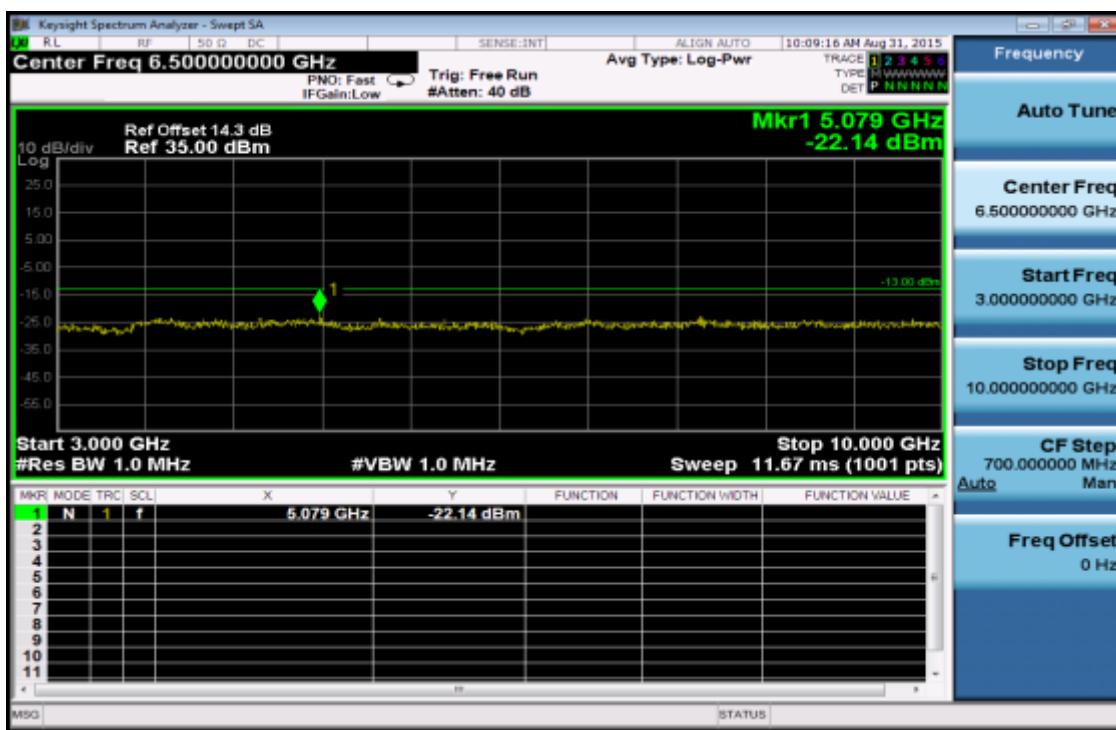
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Out of Band emission at antenna terminals – GPRS 850 Channel Lowest



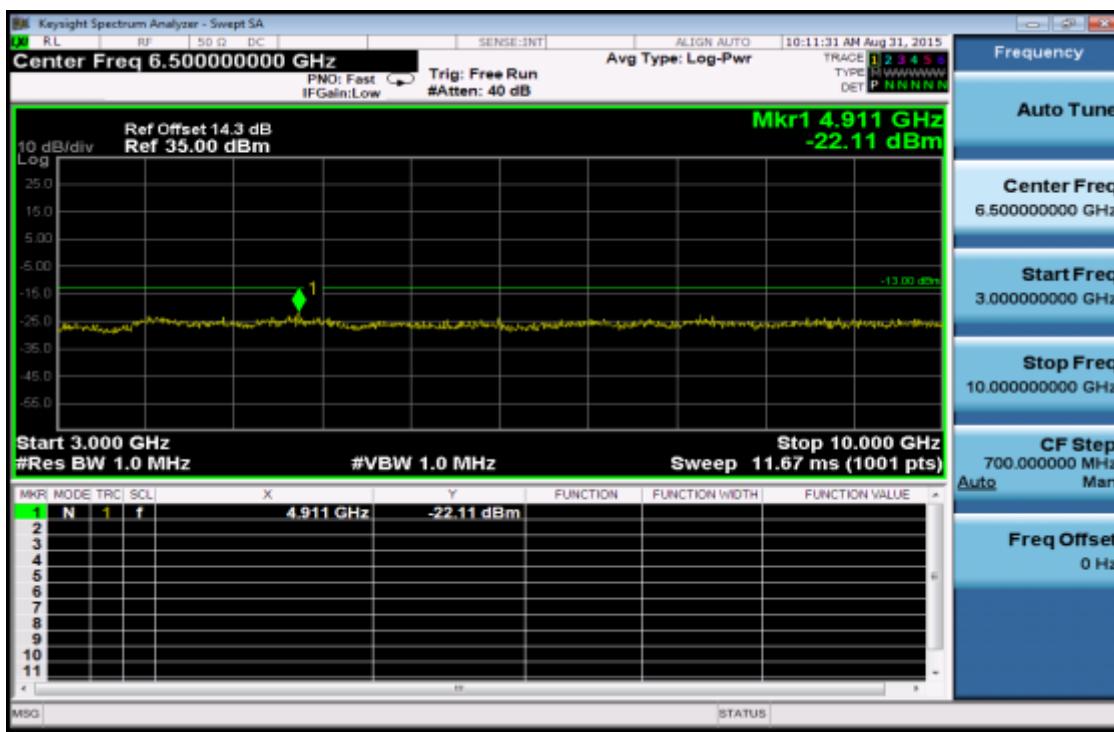
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Out of Band emission at antenna terminals – GPRS 850 Channel Mid



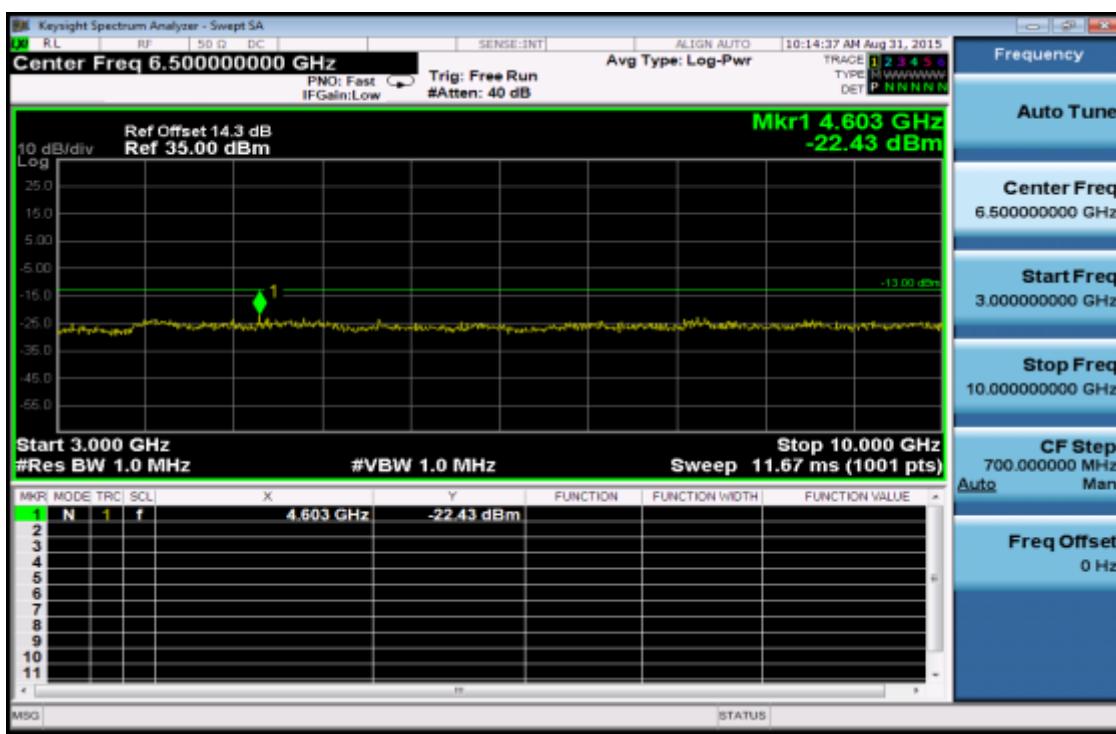
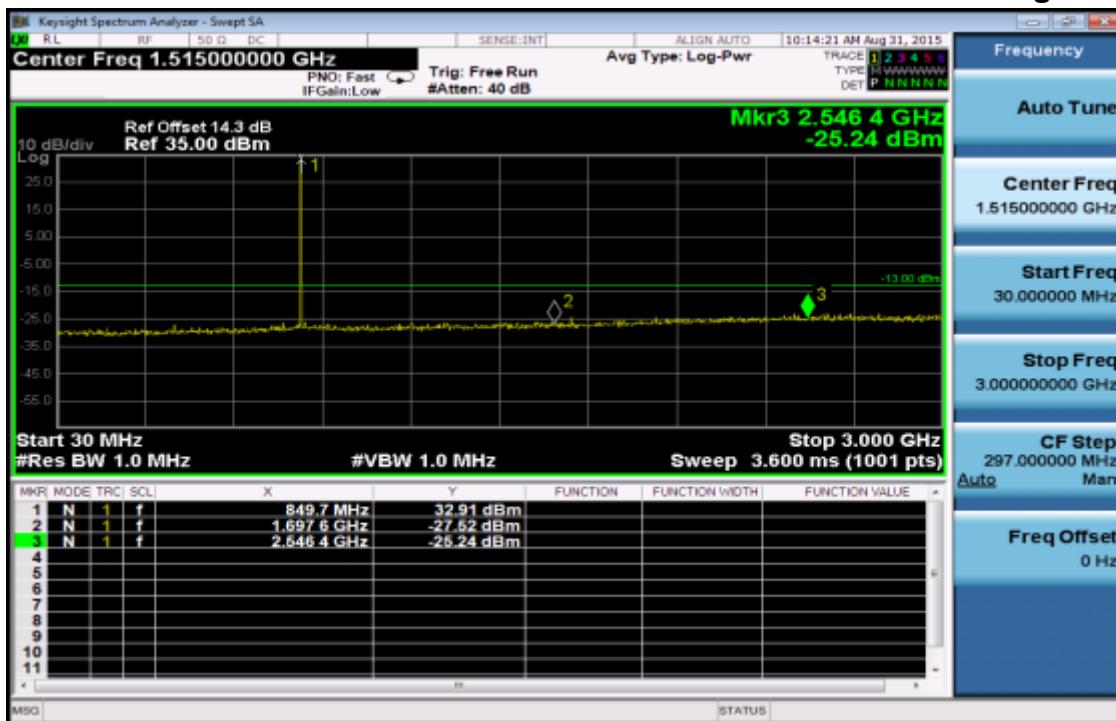
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Out of Band emission at antenna terminals – GPRS 850 Channel Highest



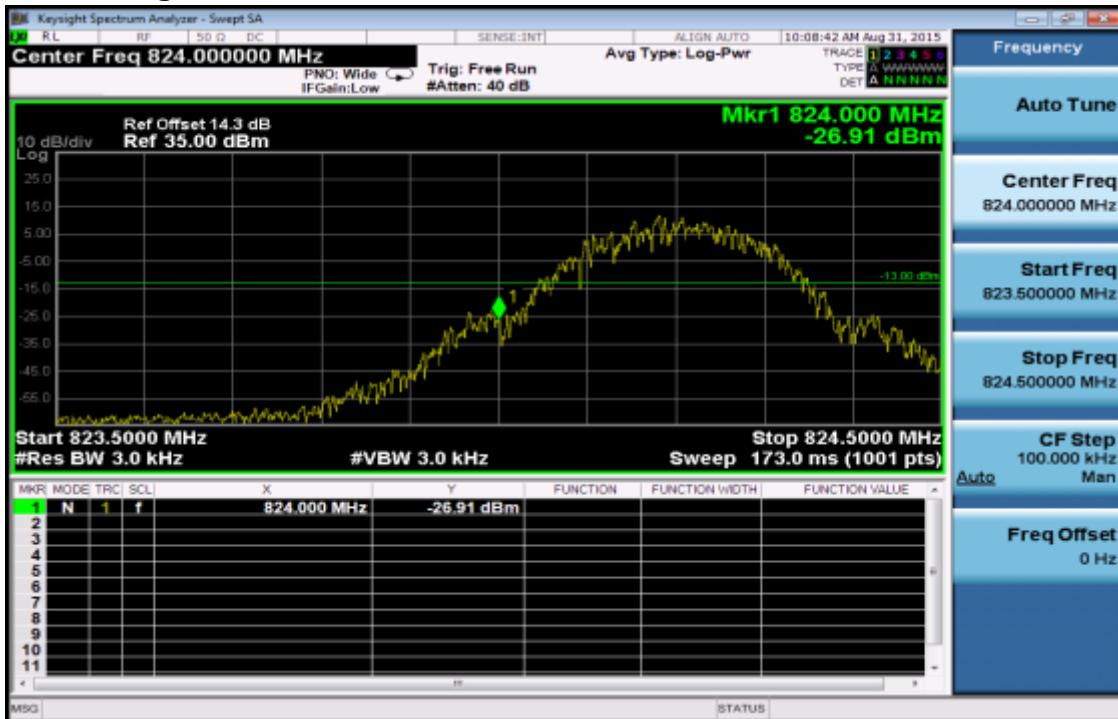
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Band edge emission at antenna terminals – GPRS 850 Channel Lowest



Band edge emission at antenna terminals – GPRS 850 Channel Highest

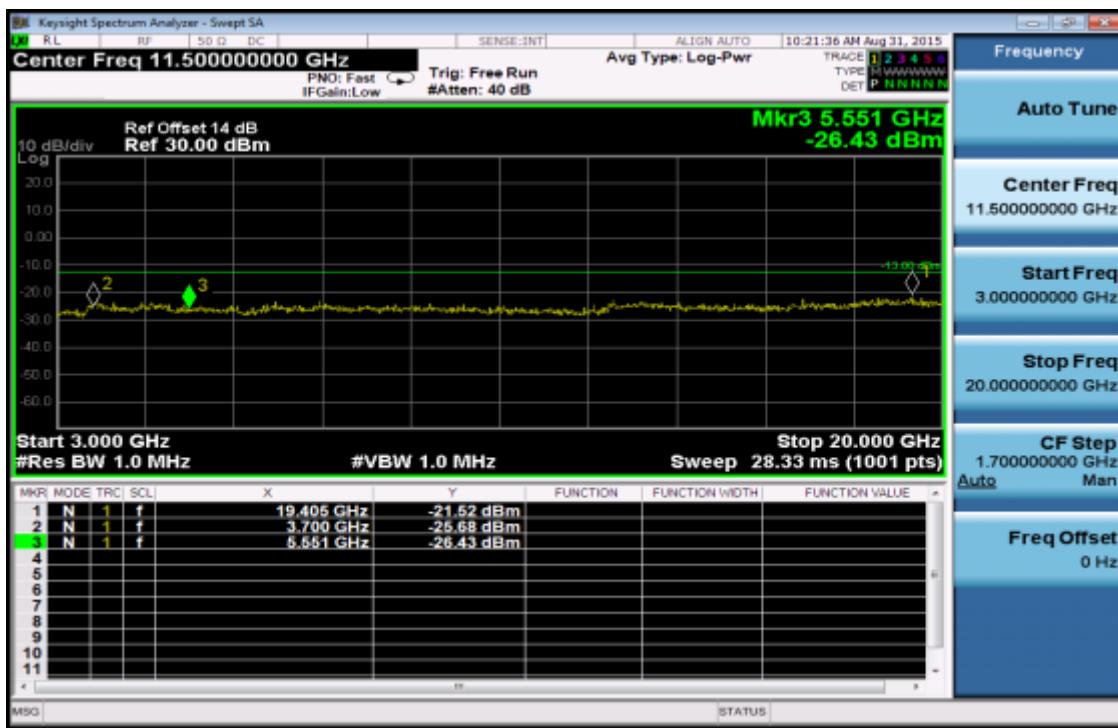
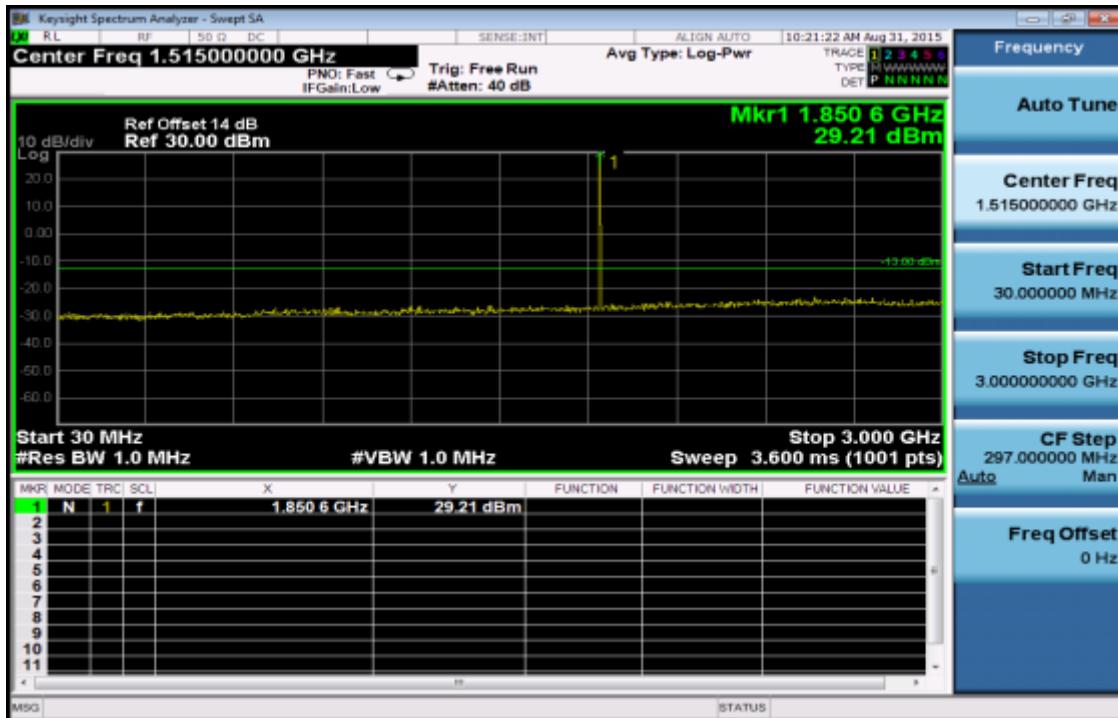


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Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest

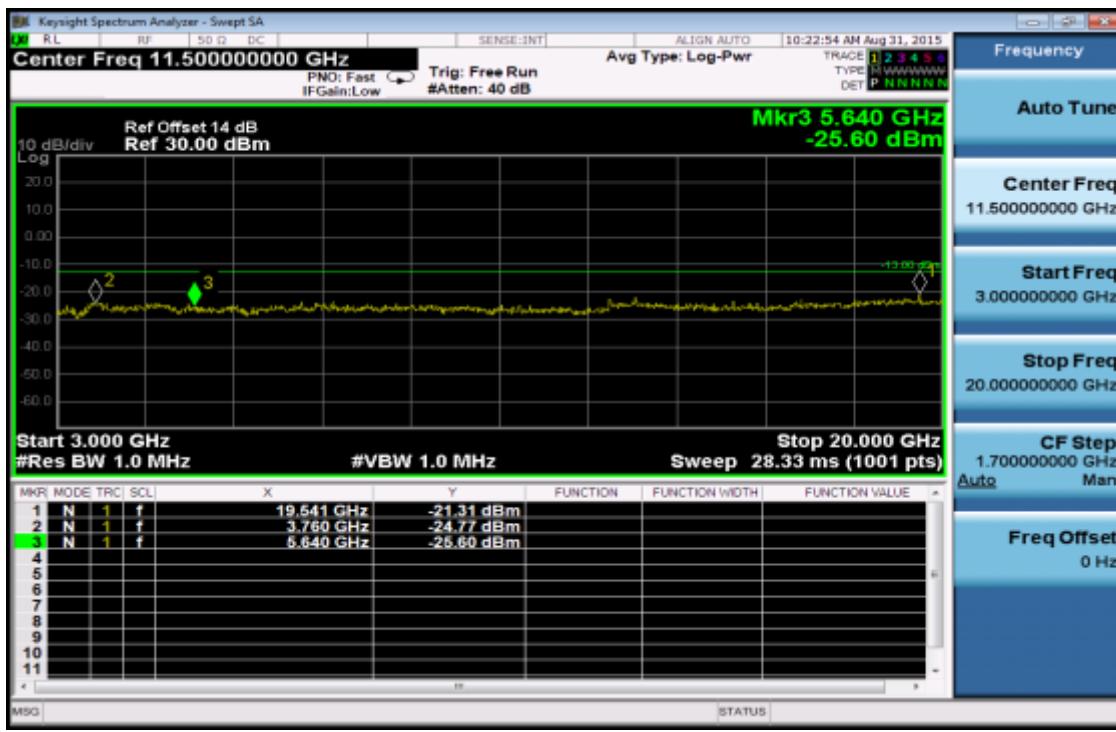
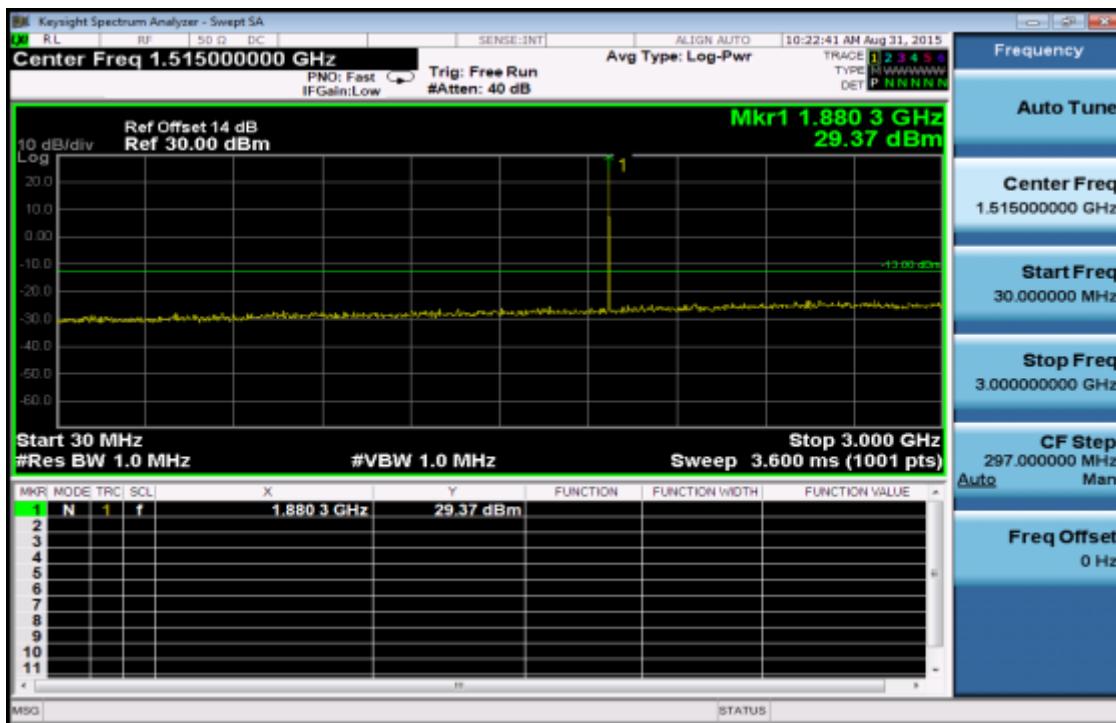


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Out of Band emission at antenna terminals – GPRS 1900 Channel Mid

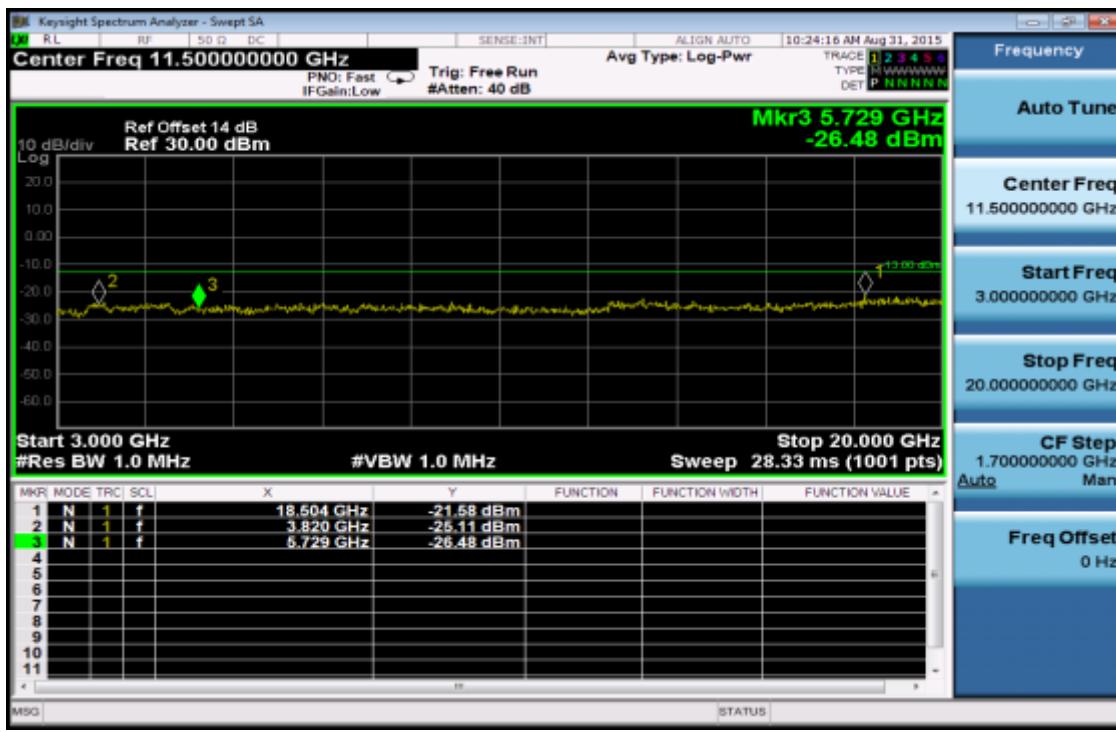
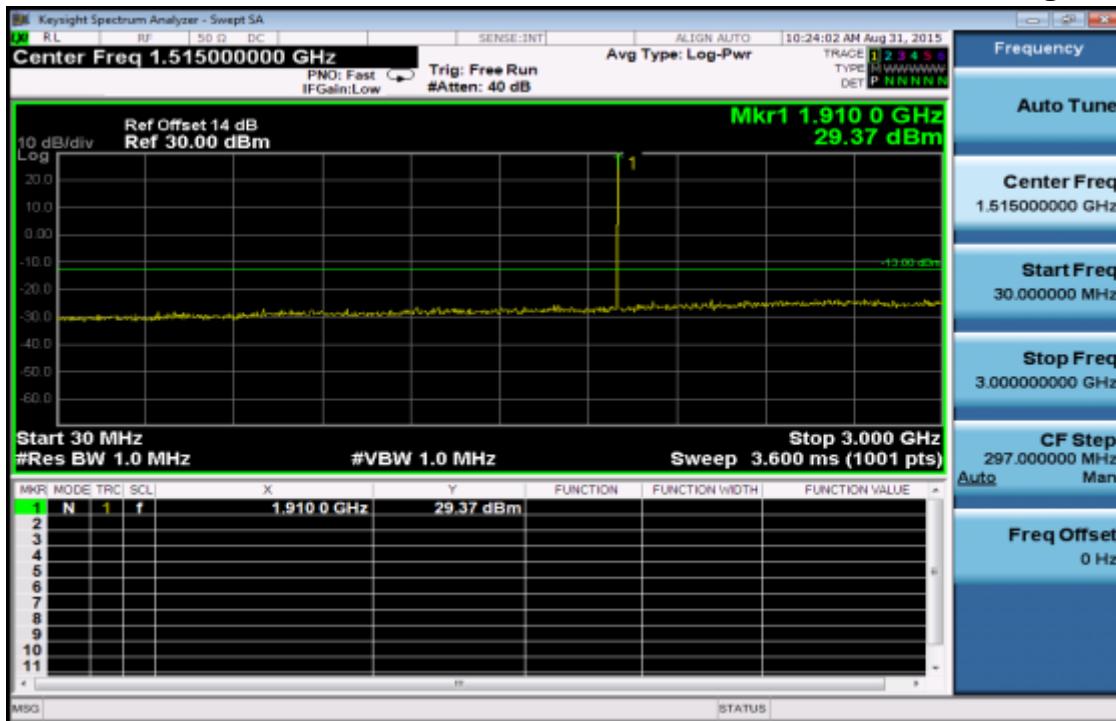


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Out of Band emission at antenna terminals – GPRS 1900 Channel Highest

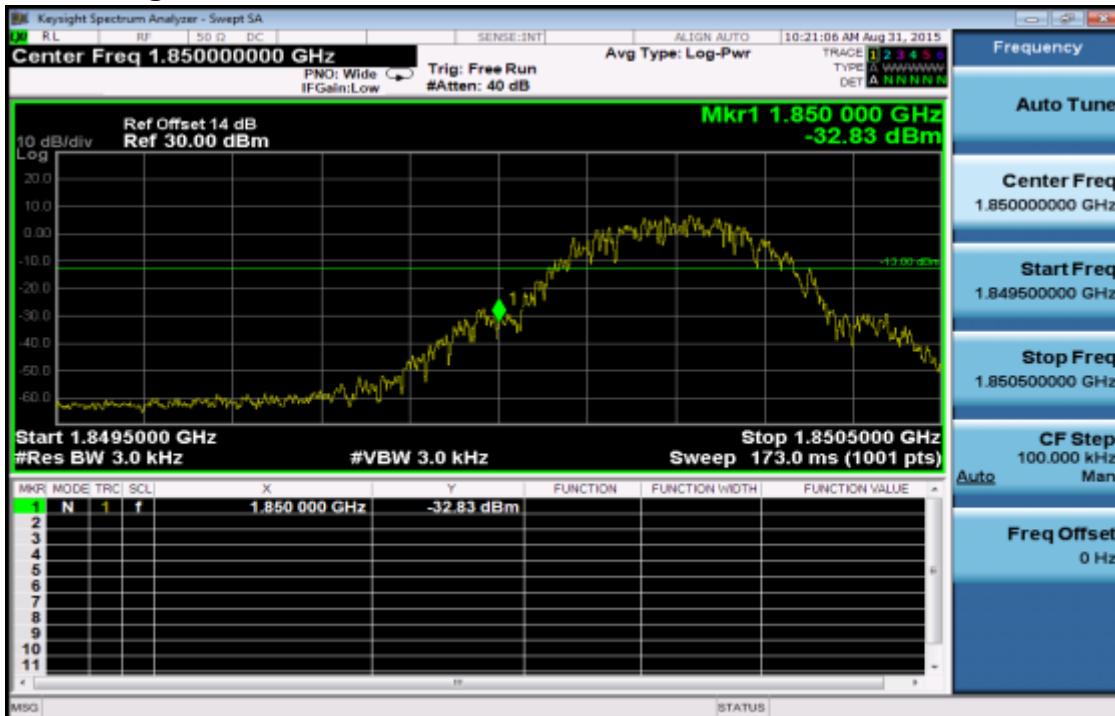


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Band edge emission at antenna terminals – GPRS 1900 Channel Lowest



Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

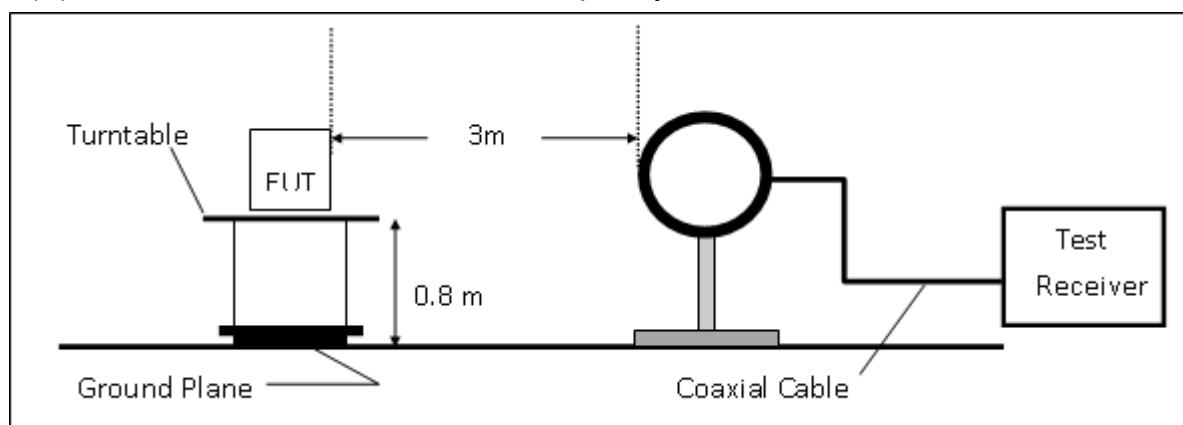
10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

10.2. EUT Setup

(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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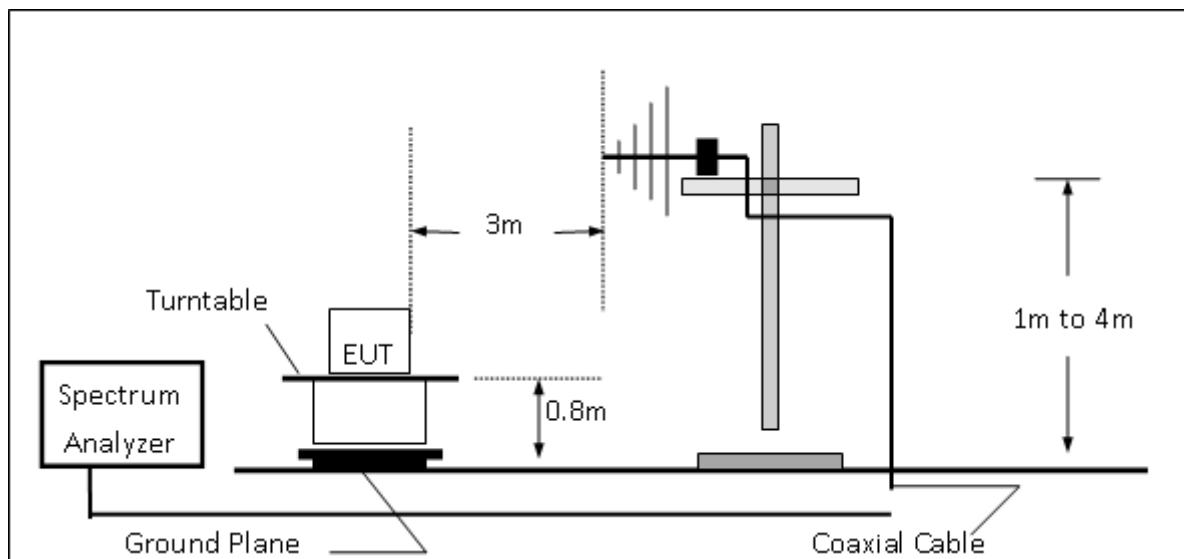
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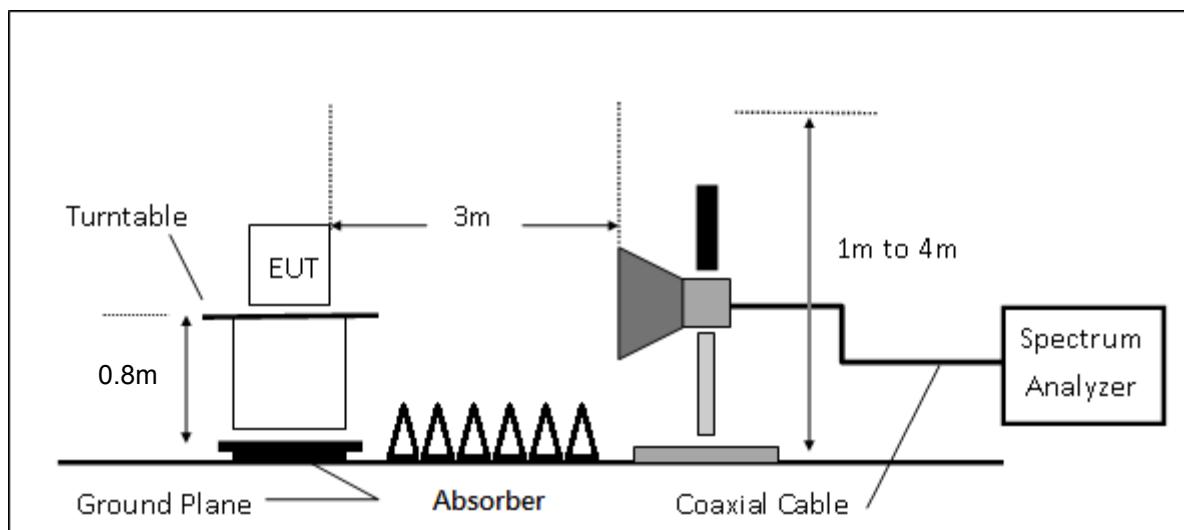
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(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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10.4. Measurement Equipment Used:

SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015
Broadband Antenna	TESEQ	CBL 6112D	35243	11/14/2014	11/13/2015
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015
Horn Antenna	ETS-Lindgren	3160-09	00117911	11/13/2014	11/12/2015
Horn Antenna	ETS-Lindgren	3160-09	00117910	11/13/2014	11/12/2015
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U SUCAFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCAFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	mini 141-12 SUCAFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCAFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCAFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2015	11/08/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	ETS-Lindgren	3117	00143279	11/05/2015	11/04/2016
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2015	12/10/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-26	100780	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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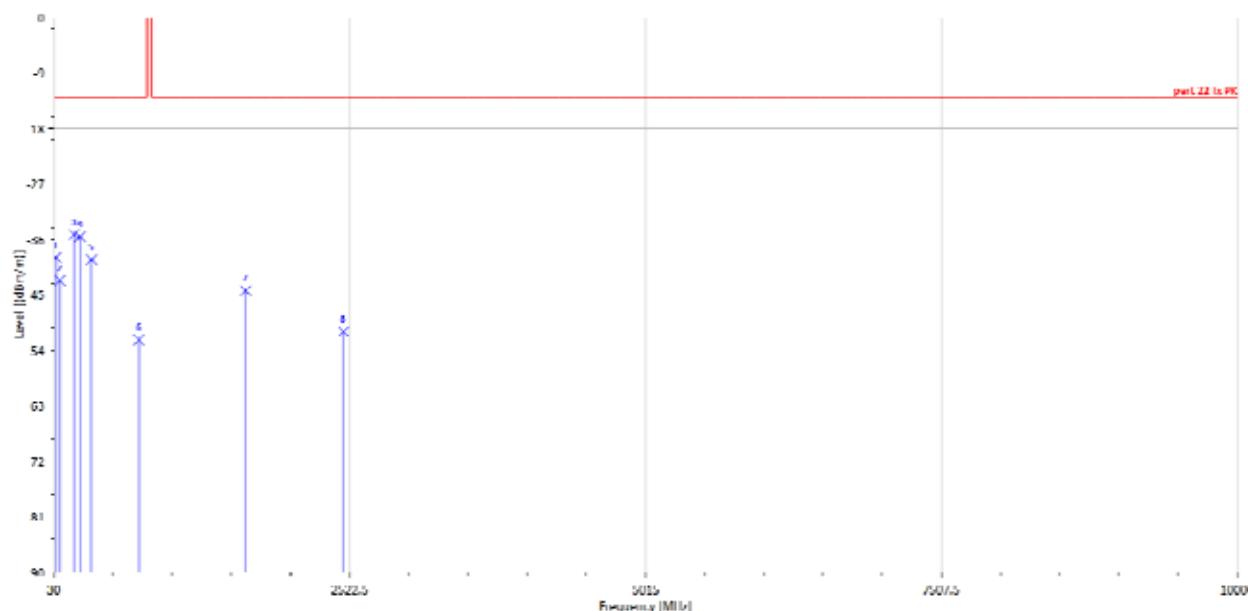
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10.5. Measurement Result:***Antenna 1****Radiated Spurious Emission Measurement Result: GPRS 850 Mode**

ARFCN	:CH 128	Test Date	:2015-08-31
Operation Band	:GPRS 850	Temp./Humi.	:24.1 deg_C / 67 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Vito
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



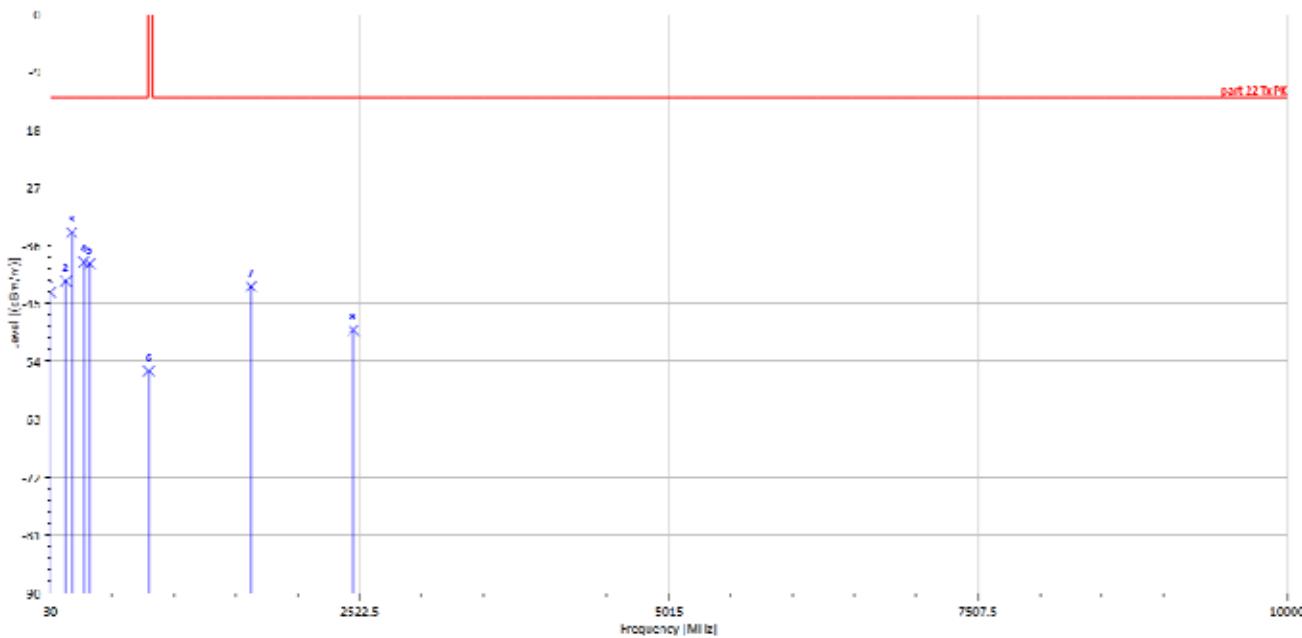
Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBD	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
50.37	S	-38.9548	-31.07	-7.01	-0.87	-13	-25.95
83.35	S	-42.6883	-39.70	-1.87	-1.11	-13	-29.69
203.63	S	-35.2494	-37.37	3.86	-1.74	-13	-22.25
252.13	S	-35.585	-36.39	2.66	-1.85	-13	-22.59
348.16	S	-39.299	-40.53	3.44	-2.21	-13	-26.30
747.80	S	-52.3309	-54.03	5.16	-3.46	-13	-39.33
1648.40	H	-44.3391	-42.92	3.69	-5.11	-13	-31.34
2472.60	H	-50.99035	-48.77	3.61	-5.82	-13	-37.99

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ARFCN :CH 128 Test Date :2015-08-31
 Operation Band :GPRS 850 Temp./Humi. :24.1 deg_C / 67 RH
 Fundamental Frequency :824.2 MHz Engineer :Vito
 Operation Mode :TX LOW Measurement Antenna Pol. :HORIZONTAL
 EUT Pol. :E1 Plane



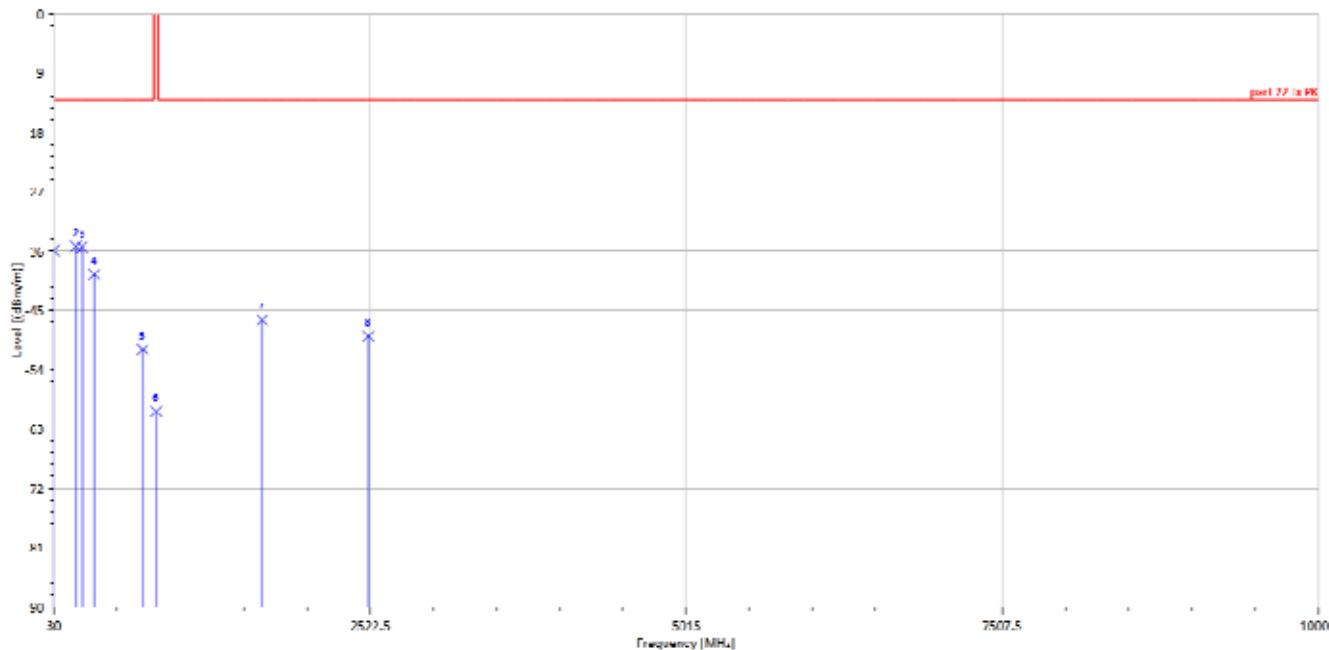
Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
30.97	S	-43.2244	-20.89	-21.66	-0.68	-13	-30.22
155.13	S	-41.5234	-40.91	0.82	-1.44	-13	-28.52
203.63	S	-33.9574	-36.08	3.86	-1.74	-13	-20.96
299.66	S	-38.5659	-39.98	3.50	-2.08	-13	-25.57
348.16	S	-38.8094	-40.04	3.44	-2.21	-13	-25.81
824.43	S	-55.4777	-57.12	5.14	-3.49	38.45	-93.93
1648.40	H	-42.35415	-40.94	3.69	-5.11	-13	-29.35
2472.60	H	-49.1049	-46.89	3.61	-5.82	-13	-36.10

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ARFCN :CH 190 Test Date :2015-08-31
 Operation Band :GPRS 850 Temp./Humi. :24.1 deg_C / 67 RH
 Fundamental Frequency :836.6 MHz Engineer :Vito
 Operation Mode :TX MID Measurement Antenna Pol. :VERTICAL
 EUT Pol. :E1 Plane



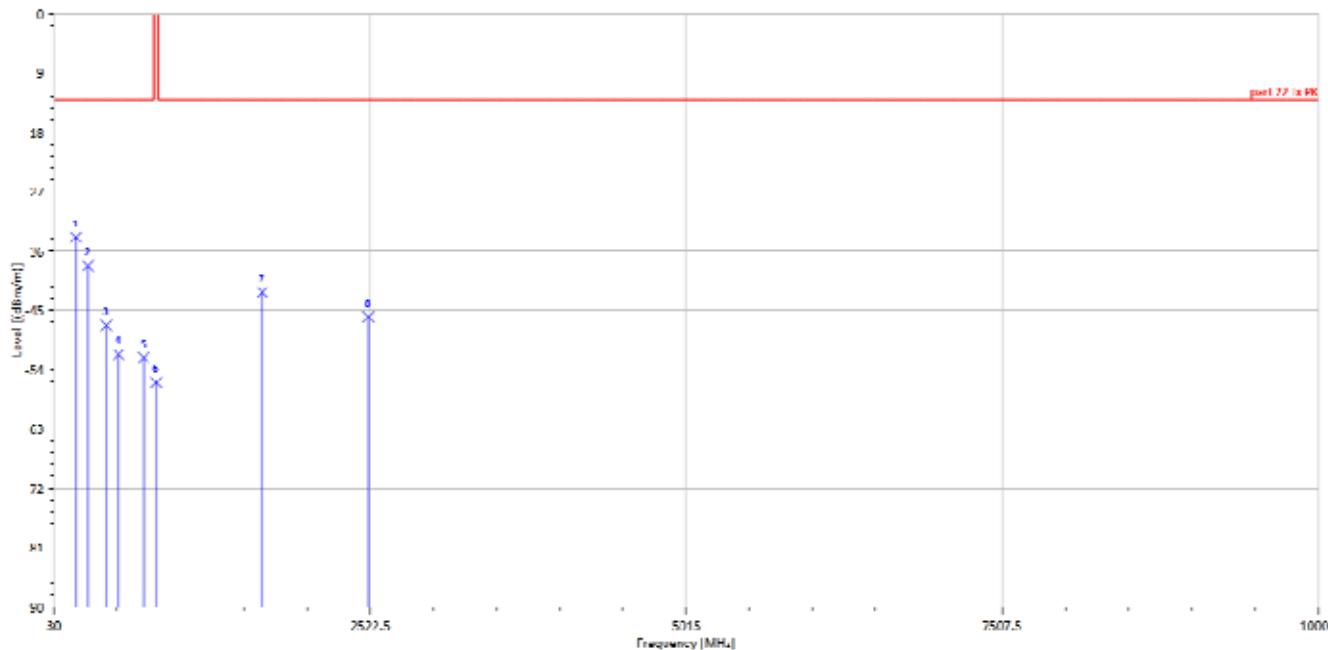
Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
31.94	S	-35.9241	-14.42	-20.82	-0.69	-13	-22.92
203.63	S	-35.3463	-37.47	3.86	-1.74	-13	-22.35
252.13	S	-35.4305	-36.24	2.66	-1.85	-13	-22.43
348.16	S	-39.5519	-40.78	3.44	-2.21	-13	-26.55
730.34	S	-50.9653	-52.87	5.12	-3.22	-13	-37.97
837.04	S	-60.375	-62.05	5.09	-3.42	38.45	-98.83
1673.20	H	-46.4721	-44.98	3.63	-5.13	-13	-33.47
2509.80	H	-48.96412	-46.80	3.67	-5.84	-13	-35.96

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ARFCN :CH 190 Test Date :2015-08-31
 Operation Band :GPRS 850 Temp./Humi. :24.1 deg_C / 67 RH
 Fundamental Frequency :836.6 MHz Engineer :Vito
 Operation Mode :TX MID Measurement Antenna Pol. :HORIZONTAL
 EUT Pol. :E1 Plane



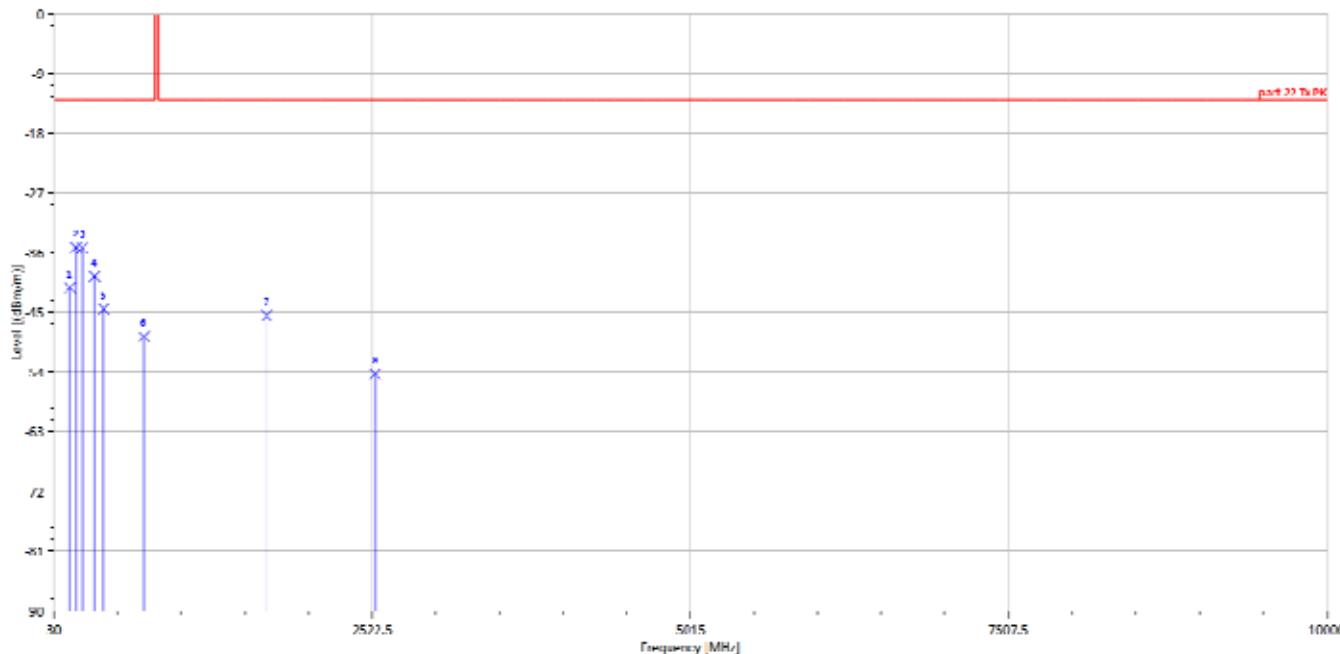
Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
203.63	S	-33.9416	-36.06	3.86	-1.74	-13	-20.94
299.66	S	-38.2595	-39.68	3.50	-2.08	-13	-25.26
444.19	S	-47.3162	-48.52	3.57	-2.37	-13	-34.32
540.22	S	-51.7181	-52.94	3.98	-2.76	-13	-38.72
738.10	S	-52.22	-54.02	5.14	-3.34	-13	-39.22
837.04	S	-55.9886	-57.66	5.09	-3.42	38.45	-94.44
1673.20	H	-42.29479	-40.80	3.63	-5.13	-13	-29.29
2509.80	H	-46.01592	-43.85	3.67	-5.84	-13	-33.02

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ARFCN :CH 251 Test Date :2015-08-31
 Operation Band :GPRS 850 Temp./Humi. :24.1 deg_C / 67 RH
 Fundamental Frequency :848.8 MHz Engineer :Vito
 Operation Mode :TX HIGH Measurement Antenna Pol. :VERTICAL
 EUT Pol. :E1 Plane



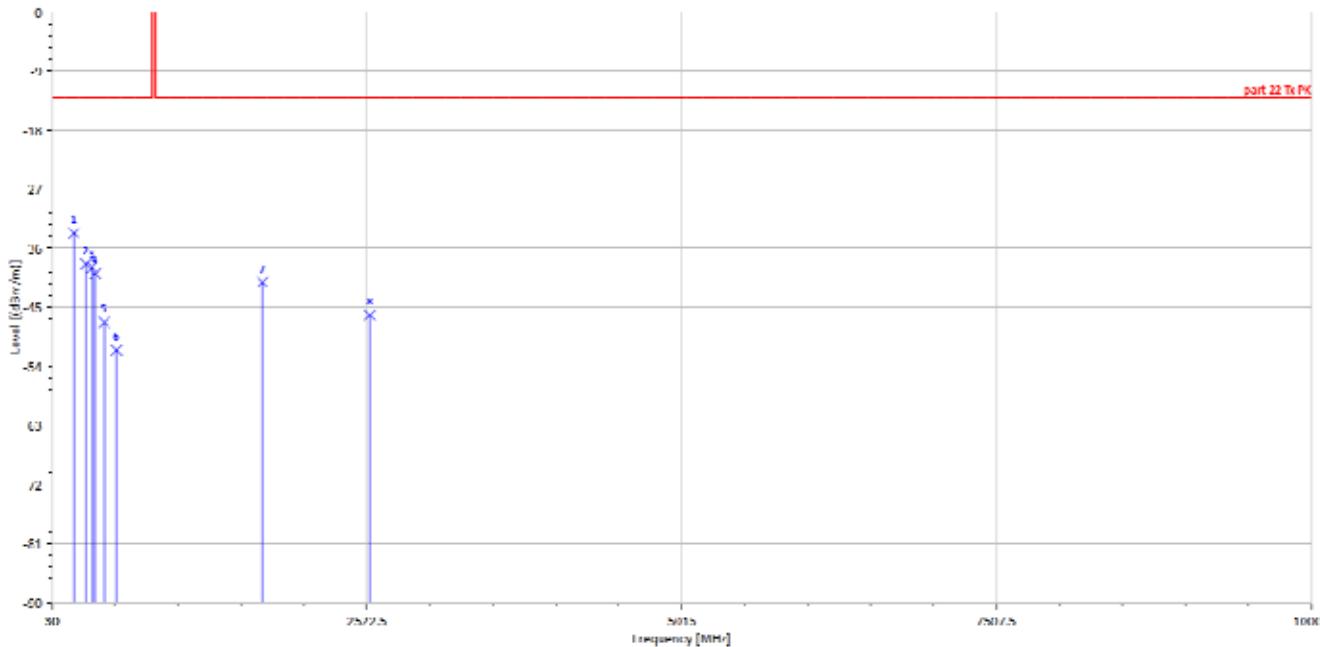
Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
156.10	S	-41.292	-40.76	0.93	-1.46	-13	-28.29
203.63	S	-35.2361	-37.36	3.86	-1.74	-13	-22.24
252.13	S	-35.3413	-36.15	2.66	-1.85	-13	-22.34
348.16	S	-39.5992	-40.83	3.44	-2.21	-13	-26.60
419.94	S	-44.5194	-45.25	3.37	-2.64	-13	-31.52
737.13	S	-48.6994	-50.47	5.13	-3.36	-13	-35.70
1697.60	H	-45.5225	-43.93	3.58	-5.17	-13	-32.52
2546.40	H	-54.30201	-52.21	3.76	-5.85	-13	-41.30

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ARFCN :CH 251 Test Date :2015-08-31
 Operation Band :GPRS 850 Temp./Humi. :24.1 deg_C / 67 RH
 Fundamental Frequency :848.8 MHz Engineer :Vito
 Operation Mode :TX HIGH Measurement Antenna Pol. :HORIZONTAL
 EUT Pol. :E1 Plane



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
203.63	S	-33.7179	-35.84	3.86	-1.74	-13	-20.72
299.66	S	-38.4375	-39.85	3.50	-2.08	-13	-25.44
348.16	S	-38.8905	-40.12	3.44	-2.21	-13	-25.89
372.41	S	-39.8584	-40.84	3.33	-2.35	-13	-26.86
444.19	S	-47.3163	-48.52	3.57	-2.37	-13	-34.32
540.22	S	-51.5544	-52.78	3.98	-2.76	-13	-38.55
1697.60	H	-41.19136	-39.60	3.58	-5.17	-13	-28.19
2546.40	H	-46.20474	-44.12	3.76	-5.85	-13	-33.20

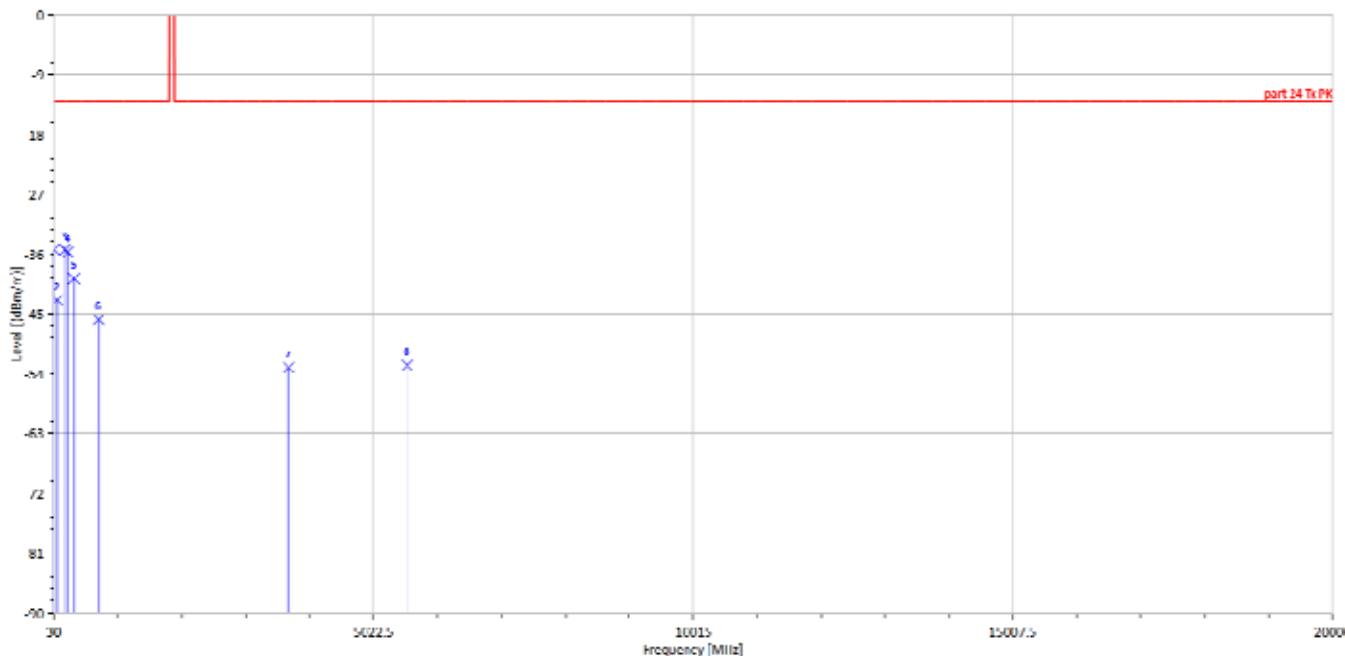
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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

ARFCN :CH 512 Test Date :2015-08-31
 Operation Band :GPRS 1900 Temp./Humi. :24.1 deg_C / 67 RH
 Fundamental Frequency :1850.2 MHz Engineer :Vito
 Operation Mode :TX LOW
 EUT Pol. :E1 Plane Measurement Antenna Pol. :VERTICAL



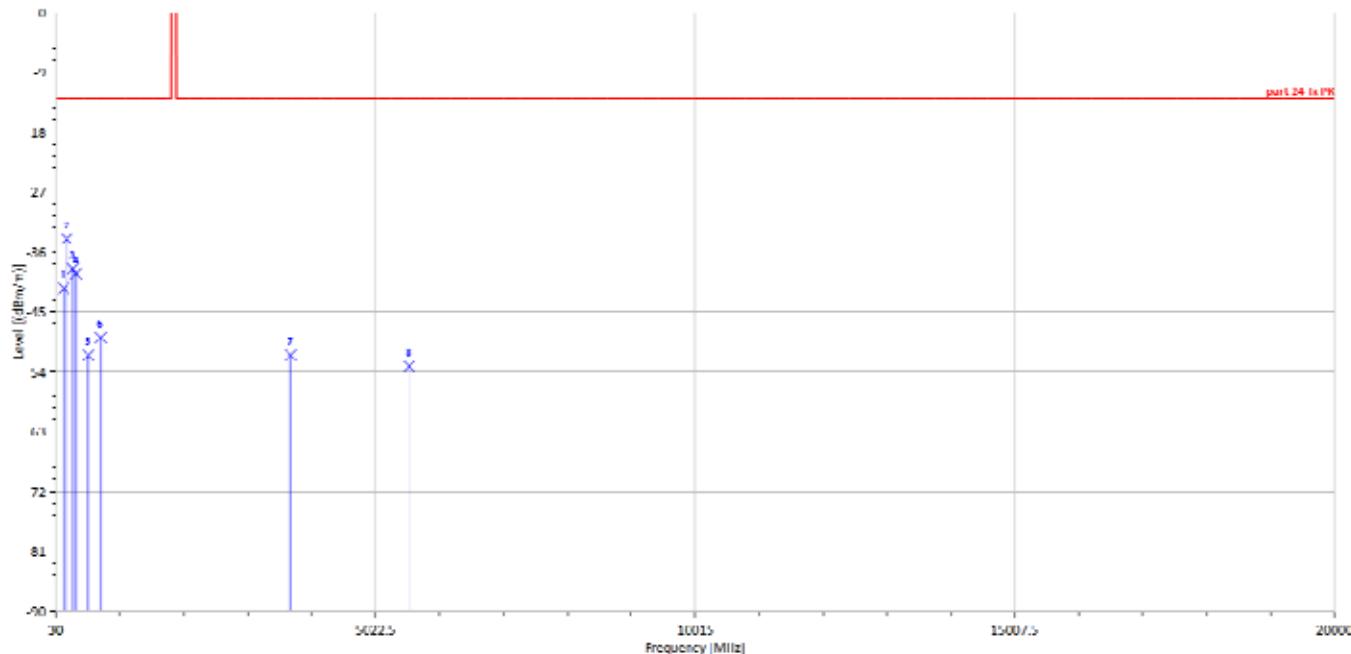
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			SG Output Level dBm	Antenna Gain dBi				
31.94	S	-35.3337	-13.83	-20.82	-0.69	-13.01	-22.32	
83.35	S	-42.9684	-39.98	-1.87	-1.11	-13.01	-29.96	
203.63	S	-35.3796	-37.50	3.86	-1.74	-13.01	-22.37	
252.13	S	-35.6704	-36.48	2.66	-1.85	-13.01	-22.66	
348.16	S	-39.7111	-40.94	3.44	-2.21	-13.01	-26.70	
731.31	S	-45.8933	-47.88	5.12	-3.14	-13.01	-32.88	
3700.40	H	-53.10723	-54.86	8.68	-6.93	-13.01	-40.10	
5550.60	H	-52.76566	-55.32	10.32	-7.76	-13.01	-39.76	

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ARFCN :CH 512 Test Date :2015-08-31
 Operation Band :GPRS 1900 Temp./Humi. :24.1 deg_C / 67 RH
 Fundamental Frequency :1850.2 MHz Engineer :Vito
 Operation Mode :TX LOW Measurement Antenna Pol. :HORIZONTAL
 EUT Pol. :E1 Plane



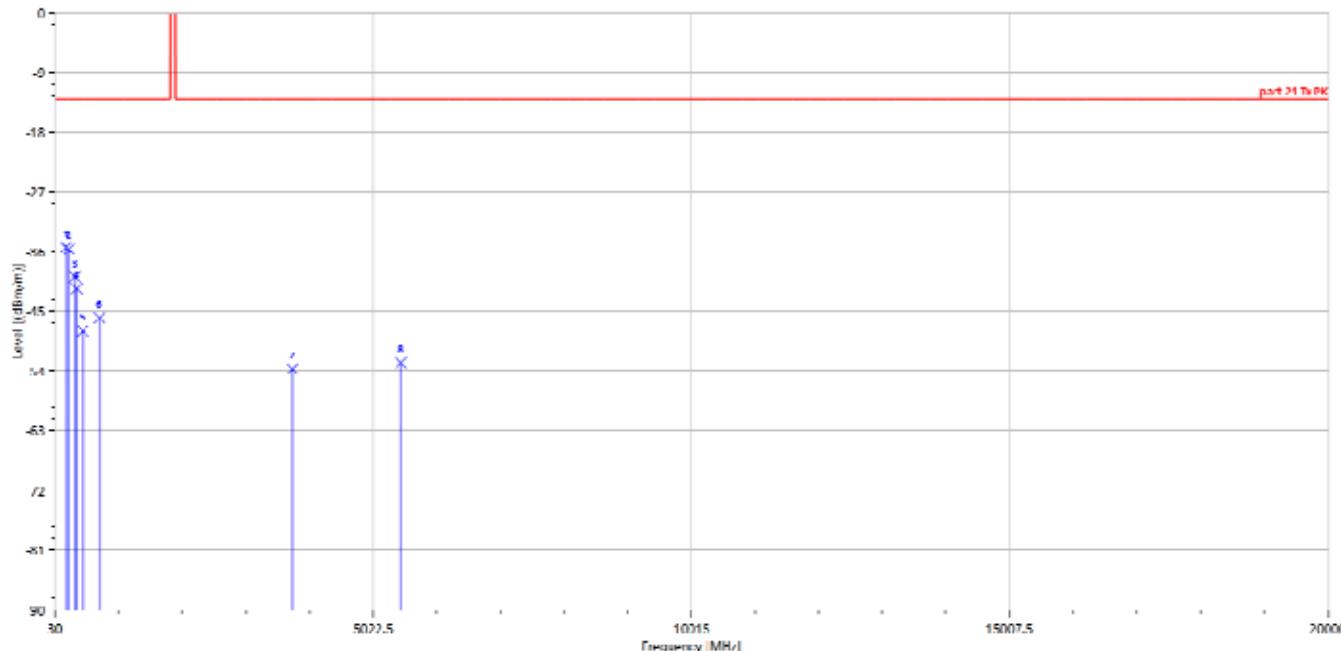
Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	Output Level dBm				
156.10	S	-41.5402	-41.01	0.93	-1.46	-13.01	-28.53	
203.63	S	-34.0593	-36.18	3.86	-1.74	-13.01	-21.05	
299.66	S	-38.6095	-40.03	3.50	-2.08	-13.01	-25.60	
348.16	S	-39.2885	-40.52	3.44	-2.21	-13.01	-26.28	
540.22	S	-51.5535	-52.78	3.98	-2.76	-13.01	-38.54	
731.31	S	-48.9012	-50.88	5.12	-3.14	-13.01	-35.89	
3700.40	H	-51.5205	-53.27	8.68	-6.93	-13.01	-38.51	
5550.60	H	-53.22105	-55.78	10.32	-7.76	-13.01	-40.21	

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ARFCN :CH 661 Test Date :2015-08-31
 Operation Band :GPRS 1900 Temp./Humi. :24.1 deg_C / 67 RH
 Fundamental Frequency :1880.0 MHz Engineer :Vito
 Operation Mode :TX MID Measurement Antenna Pol. :VERTICAL
 EUT Pol. :E1 Plane



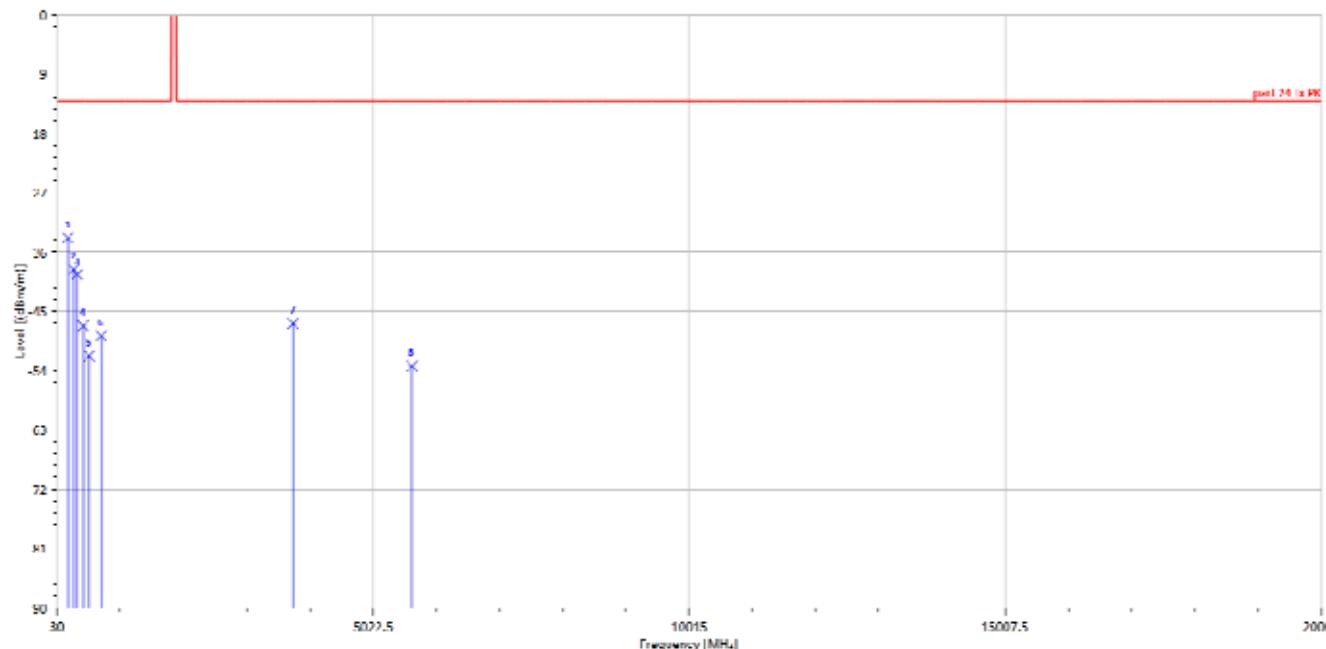
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
203.63	S	-35.4111	-37.53	3.86	-1.74	-13.01	-22.40
252.13	S	-35.6517	-36.46	2.66	-1.85	-13.01	-22.64
348.16	S	-39.8007	-41.03	3.44	-2.21	-13.01	-26.79
372.41	S	-41.6388	-42.62	3.33	-2.35	-13.01	-28.63
468.44	S	-47.9676	-49.02	3.77	-2.72	-13.01	-34.96
730.34	S	-46.0347	-47.94	5.12	-3.22	-13.01	-33.02
3760.00	H	-53.7112	-55.58	8.70	-6.84	-13.01	-40.70
5460.00	H	-52.7921	-55.57	10.28	-7.50	-13.01	-39.78

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ARFCN :CH 661 Test Date :2015-08-31
 Operation Band :GPRS 1900 Temp./Humi. :24.1 deg_C / 67 RH
 Fundamental Frequency :1880.0 MHz Engineer :Vito
 Operation Mode :TX MID Measurement Antenna Pol. :HORIZONTAL
 EUT Pol. :E1 Plane



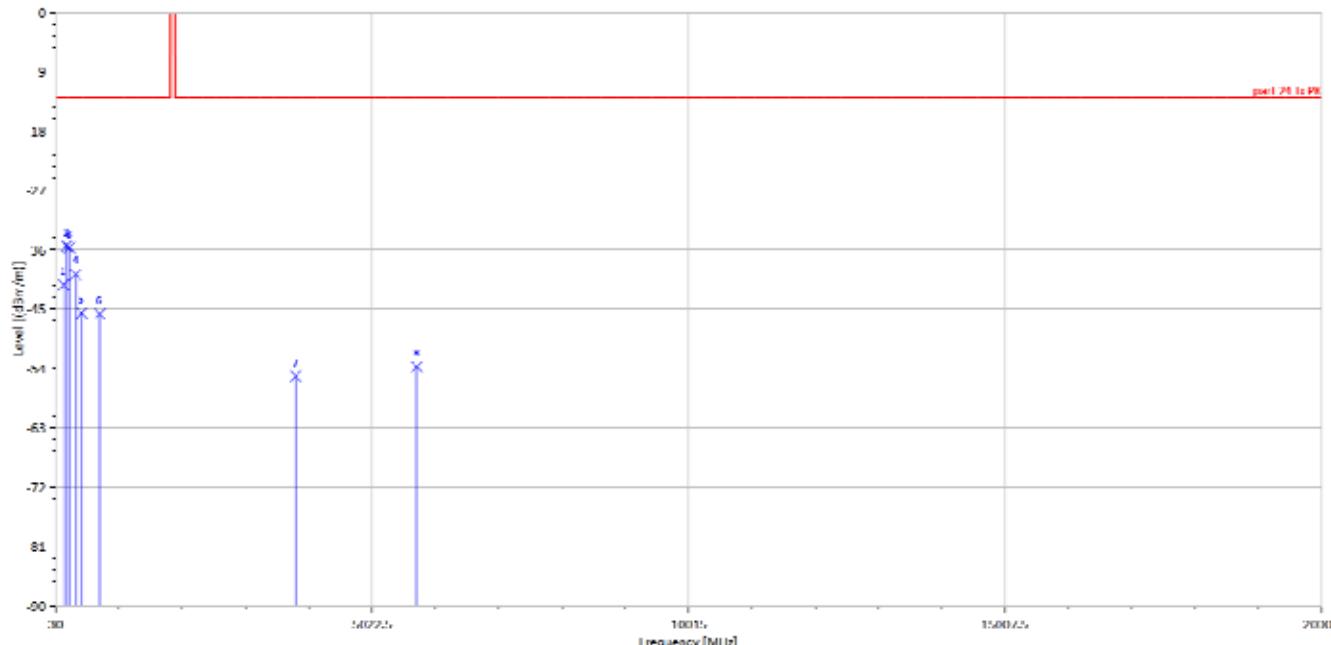
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			SG	Antenna				
203.63	S	-33.898	-36.02	3.86	-1.74	-13.01	-20.89	
299.66	S	-38.6211	-40.04	3.50	-2.08	-13.01	-25.61	
348.16	S	-39.4243	-40.66	3.44	-2.21	-13.01	-26.41	
444.19	S	-47.2593	-48.46	3.57	-2.37	-13.01	-34.25	
540.22	S	-51.7804	-53.00	3.98	-2.76	-13.01	-38.77	
731.31	S	-48.7312	-50.71	5.12	-3.14	-13.01	-35.72	
3760.00	H	-46.8776	-48.74	8.70	-6.84	-13.01	-33.87	
5640.00	H	-53.3517	-55.75	10.36	-7.96	-13.01	-40.34	

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ARFCN :CH 810 Test Date :2015-08-31
 Operation Band :GPRS 1900 Temp./Humi. :24.1 deg_C / 67 RH
 Fundamental Frequency :1909.8 MHz Engineer :Vito
 Operation Mode :TX HIGH Measurement Antenna Pol. :VERTICAL
 EUT Pol. :E1 Plane



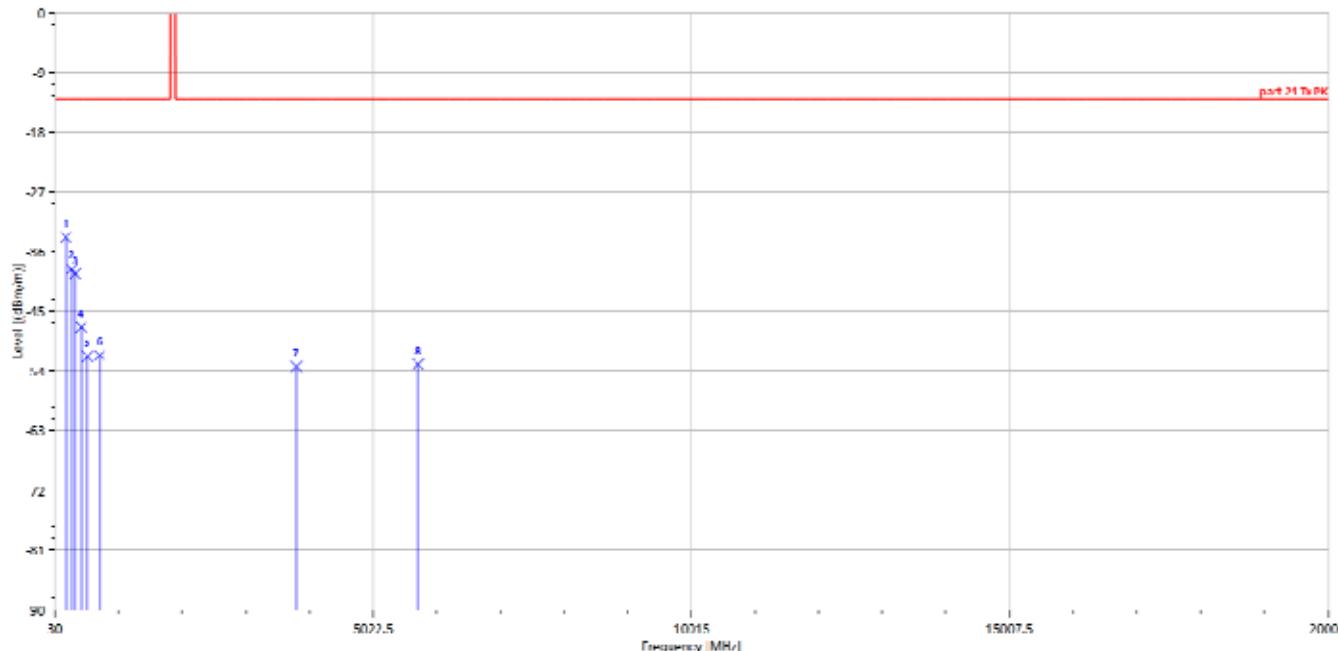
Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	Output Level dBm				
156.10	S	-41.3441	-40.81	0.93	-1.46	-13.01	-28.33	
203.63	S	-35.4505	-37.57	3.86	-1.74	-13.01	-22.44	
252.13	S	-35.6762	-36.48	2.66	-1.85	-13.01	-22.67	
348.16	S	-39.7704	-41.00	3.44	-2.21	-13.01	-26.76	
444.19	S	-45.6211	-46.82	3.57	-2.37	-13.01	-32.61	
731.31	S	-45.7606	-47.74	5.12	-3.14	-13.01	-32.75	
3819.60	H	-55.1881	-57.00	8.73	-6.92	-13.01	-42.18	
5729.20	H	-53.78242	-55.98	10.39	-8.19	-13.01	-40.77	

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ARFCN :CH 810 Test Date :2015-08-31
Operation Band :GPRS 1900 Temp./Humi. :24.1 deg_C / 67 RH
Fundamental Frequency :1909.8 MHz Engineer :Vito
Frequency
Operation Mode :TX HIGH
EUT Pol. :E1 Plane Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
203.63	S	-33.8824	-36.00	3.86	-1.74	-13.01	-20.87	
299.66	S	-38.6568	-40.07	3.50	-2.08	-13.01	-25.65	
348.16	S	-39.3864	-40.62	3.44	-2.21	-13.01	-26.38	
444.19	S	-47.4143	-48.62	3.57	-2.37	-13.01	-34.40	
540.22	S	-51.8254	-53.05	3.98	-2.76	-13.01	-38.82	
732.28	S	-51.6509	-53.68	5.12	-3.10	-13.01	-38.64	
3819.60	H	-53.34231	-55.15	8.73	-6.92	-13.01	-40.33	
5729.20	H	-53.01464	-55.21	10.39	-8.19	-13.01	-40.00	

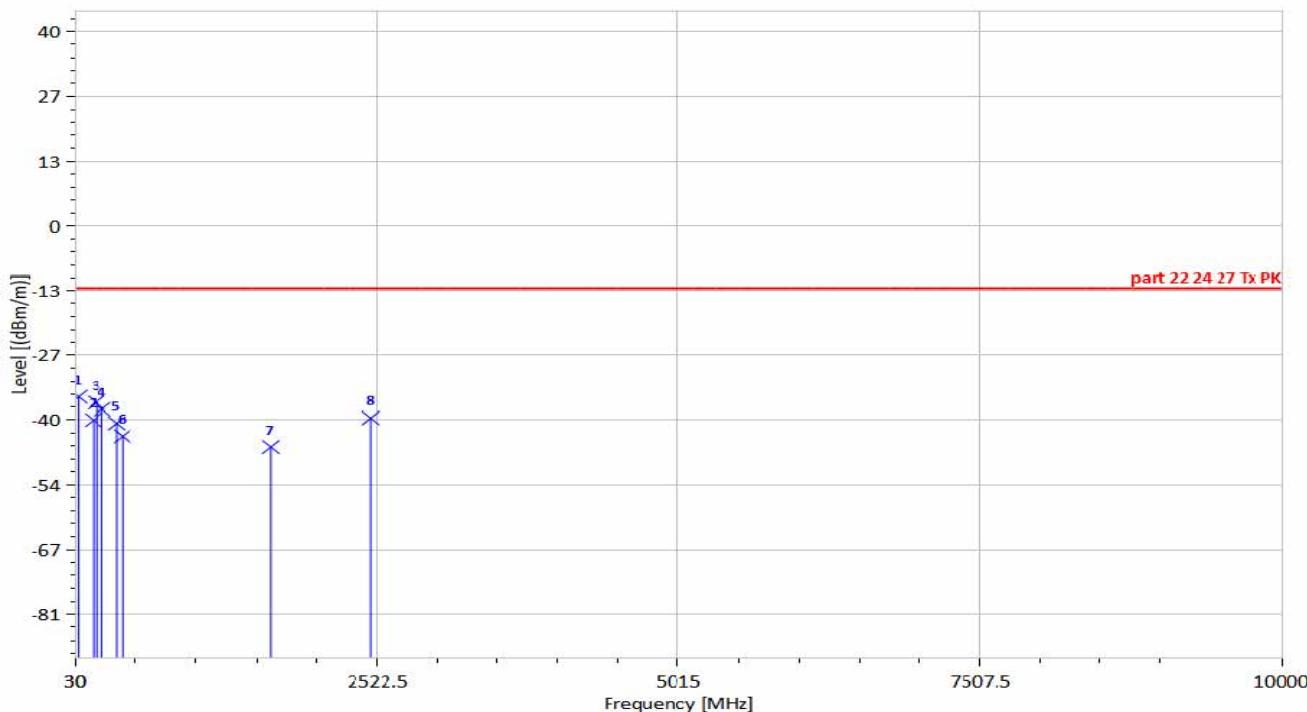
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Antenna 2*Radiated Spurious Emission Measurement Result: GPRS 850 Mode**

Operation Mode :	GPRS_850	Test Date :	2016/1/15
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	24.1deg_C/67RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
60.07	S	-35.62	-31.49	-3.17	-0.96	-13.01	-22.61
179.38	S	-40.50	-42.48	3.60	-1.62	-13.01	-27.49
203.63	S	-36.84	-38.96	3.86	-1.74	-13.01	-23.83
251.16	S	-38.24	-39.10	2.73	-1.87	-13.01	-25.23
371.44	S	-41.19	-42.15	3.34	-2.37	-13.01	-28.18
419.94	S	-43.93	-44.66	3.37	-2.64	-13.01	-30.92
1648.20	H	-46.22	-44.80	3.69	-5.11	-13.01	-33.21
2472.60	H	-40.08	-37.87	3.60	-5.81	-13.01	-27.07

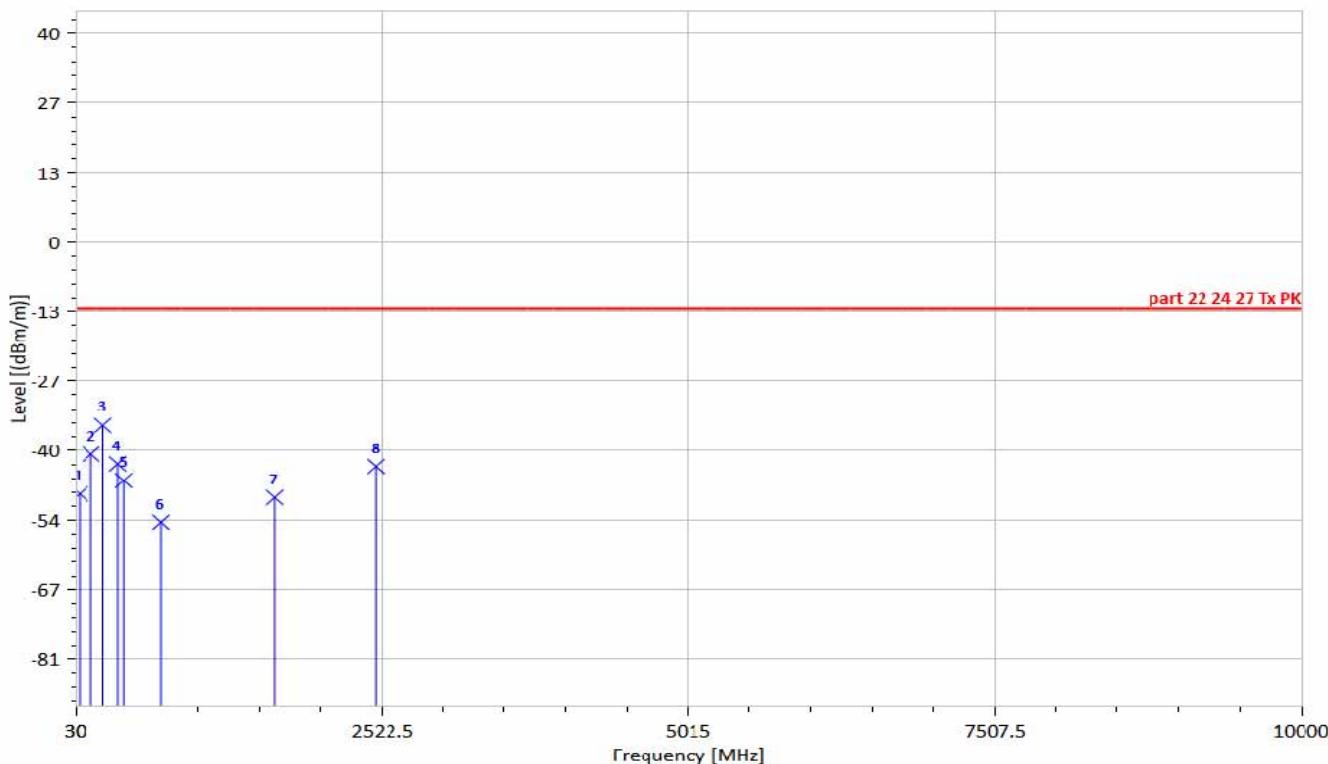
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Operation Mode : GPRS_850 Test Date : 2016/1/15
 Fundamental Frequency : 824.2 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
63.95	S	-48.85	-45.17	-2.69	-0.99	-13.01	-35.84
156.10	S	-41.18	-40.65	0.93	-1.46	-13.01	-28.17
252.13	S	-35.58	-36.39	2.66	-1.85	-13.01	-22.57
371.44	S	-43.07	-44.04	3.34	-2.37	-13.01	-30.06
419.94	S	-46.28	-47.01	3.37	-2.64	-13.01	-33.27
725.49	S	-54.48	-56.14	5.11	-3.45	-13.01	-41.47
1648.20	H	-49.53	-48.12	3.69	-5.11	-13.01	-36.52
2472.60	H	-43.56	-41.35	3.60	-5.81	-13.01	-30.55

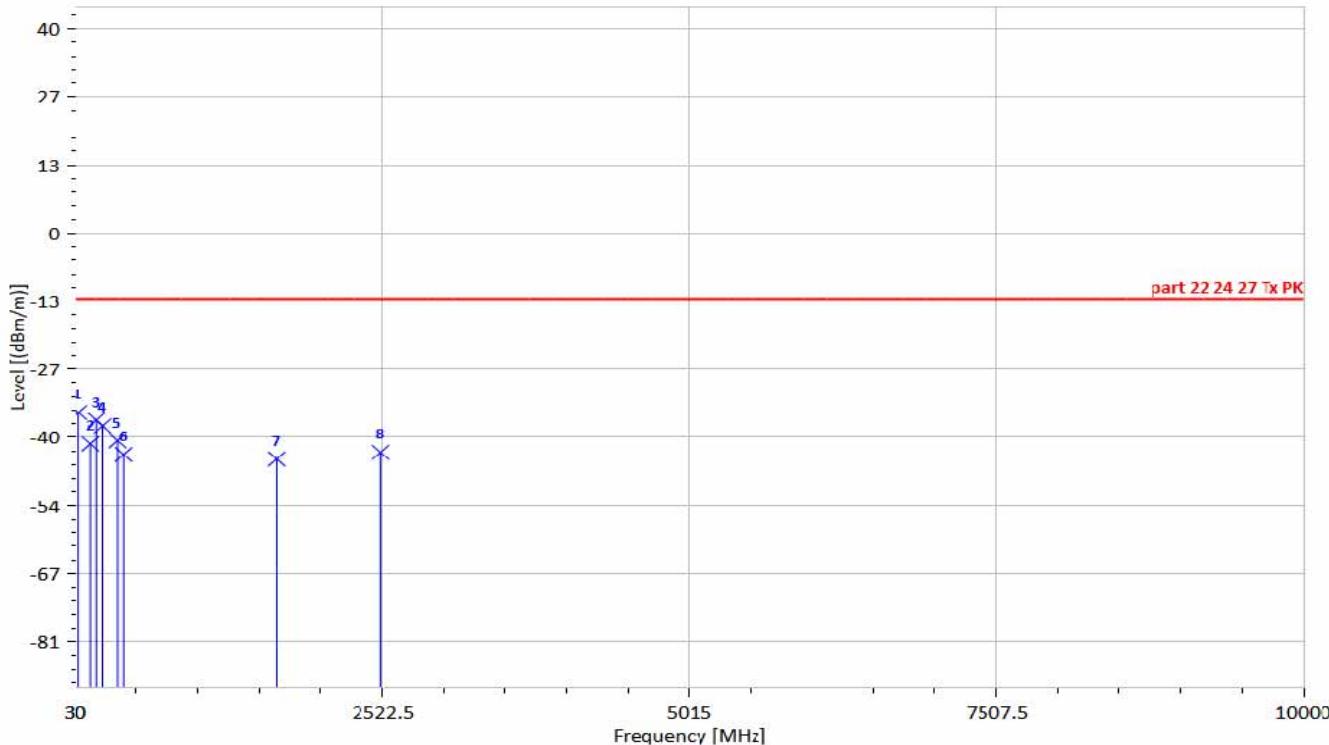
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Operation Mode : GPRS_850 Test Date : 2016/1/15
 Fundamental Frequency : 836.6 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



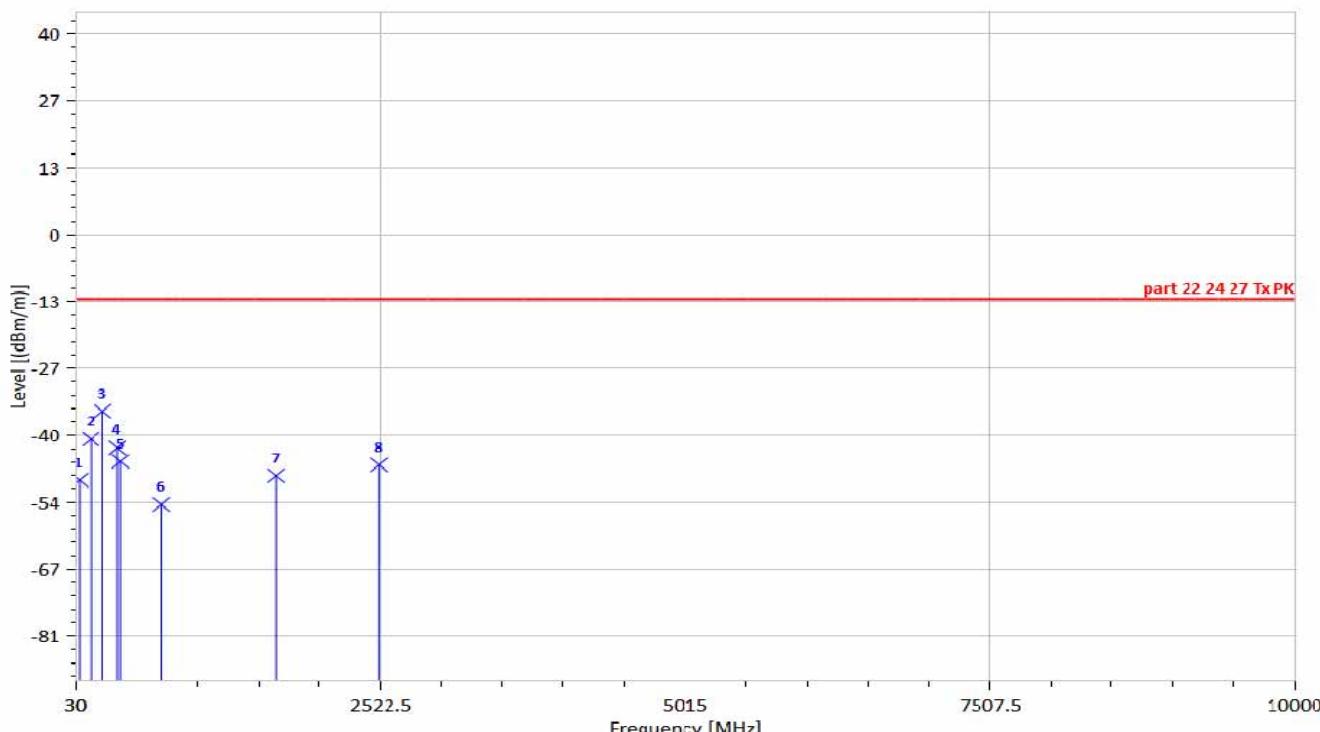
Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
60.07	S	-35.56	-31.43	-3.17	-0.96	-13.01	-22.55
156.10	S	-41.79	-41.25	0.93	-1.46	-13.01	-28.78
203.63	S	-37.06	-39.18	3.86	-1.74	-13.01	-24.05
252.13	S	-38.22	-39.03	2.66	-1.85	-13.01	-25.21
371.44	S	-41.15	-42.12	3.34	-2.37	-13.01	-28.14
419.94	S	-43.89	-44.62	3.37	-2.64	-13.01	-30.88
1666.00	H	-44.76	-43.26	3.65	-5.15	-13.01	-31.75
2509.80	H	-43.46	-41.27	3.66	-5.85	-13.01	-30.45

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Operation Mode : GPRS_850 Test Date : 2016/1/15
 Fundamental Frequency : 836.6 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



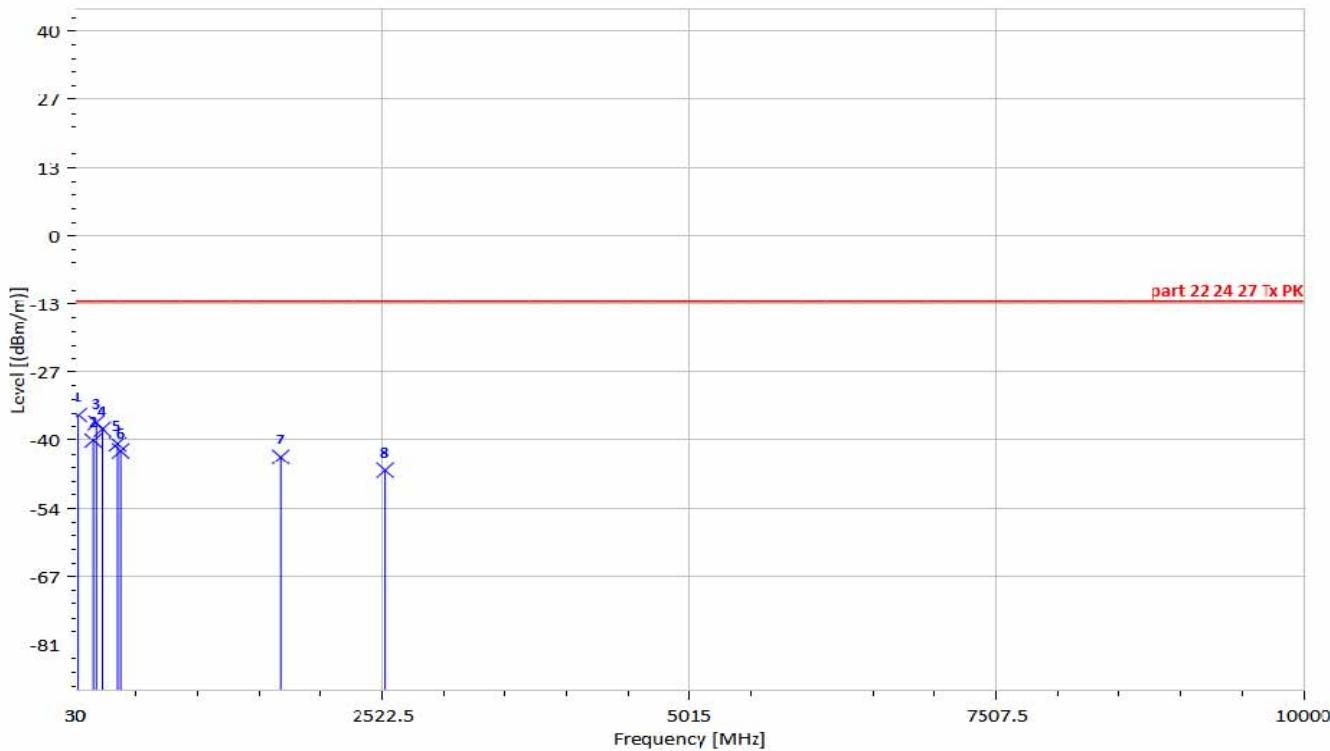
Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
63.95	S	-49.54	-45.86	-2.69	-0.99	-13.01	-36.53
156.10	S	-41.22	-40.69	0.93	-1.46	-13.01	-28.21
252.13	S	-35.63	-36.44	2.66	-1.85	-13.01	-22.62
371.44	S	-43.02	-43.98	3.34	-2.37	-13.01	-30.01
396.66	S	-45.74	-46.58	3.22	-2.37	-13.01	-32.73
731.31	S	-54.45	-56.44	5.12	-3.14	-13.01	-41.44
1673.20	H	-48.65	-47.15	3.65	-5.15	-13.01	-35.64
2509.80	H	-46.43	-44.28	3.68	-5.83	-13.01	-33.42

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Operation Mode : GPRS_850 Test Date : 2016/1/15
 Fundamental Frequency : 848.8 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



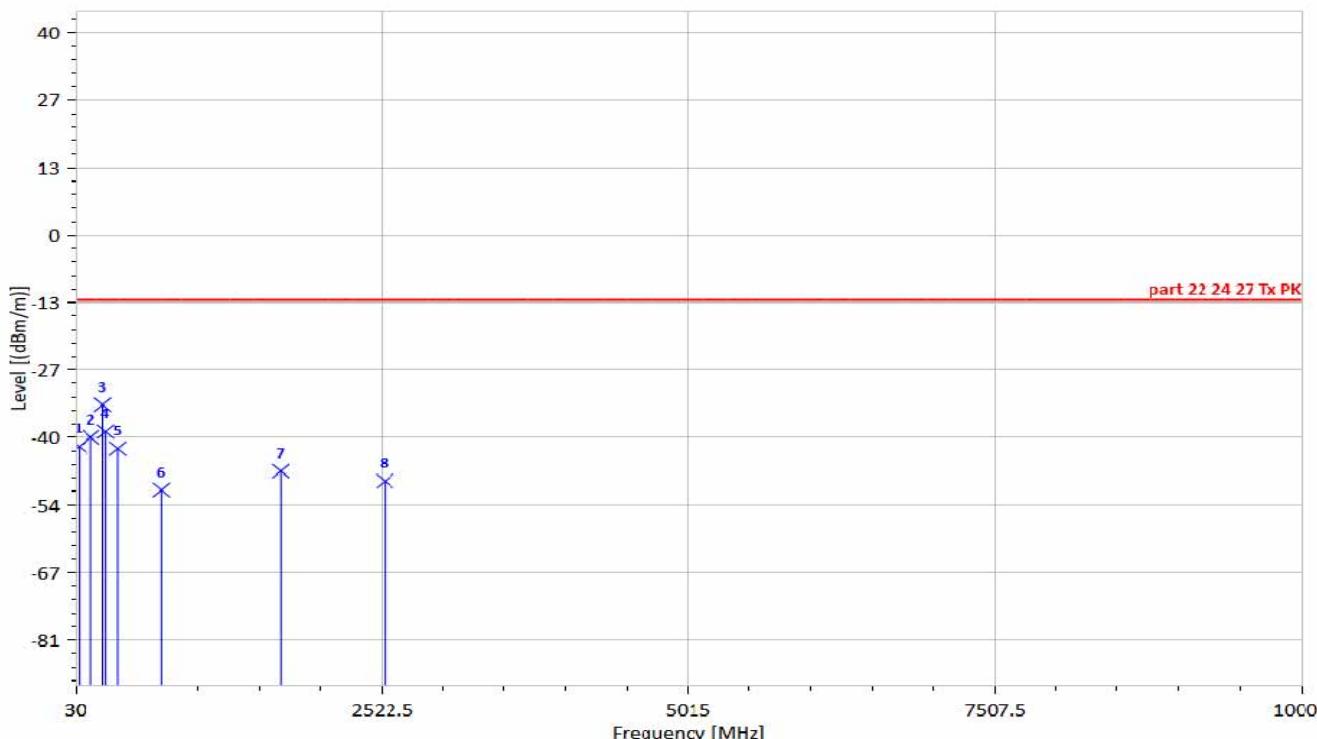
Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
60.07	S	-35.46	-31.33	-3.17	-0.96	-13.01	-22.45
179.38	S	-40.52	-42.50	3.60	-1.62	-13.01	-27.51
203.63	S	-37.03	-39.15	3.86	-1.74	-13.01	-24.02
252.13	S	-38.26	-39.06	2.66	-1.85	-13.01	-25.25
371.44	S	-41.22	-42.19	3.34	-2.37	-13.01	-28.21
395.69	S	-42.58	-43.39	3.22	-2.41	-13.01	-29.57
1697.60	H	-43.78	-42.21	3.59	-5.16	-13.01	-30.77
2546.40	H	-46.41	-44.32	3.77	-5.85	-13.01	-33.40

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Operation Mode : GPRS_850 Test Date : 2016/1/15
 Fundamental Frequency : 848.8 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
59.10	S	-42.31	-37.82	-3.54	-0.95	-13.01	-29.30
156.10	S	-40.44	-39.91	0.93	-1.46	-13.01	-27.43
252.13	S	-33.94	-34.75	2.66	-1.85	-13.01	-20.93
276.38	S	-39.29	-40.49	3.22	-2.03	-13.01	-26.28
372.41	S	-42.74	-43.73	3.33	-2.35	-13.01	-29.73
729.37	S	-51.01	-52.90	5.12	-3.23	-13.01	-38.00
1697.60	H	-47.20	-45.63	3.59	-5.16	-13.01	-34.19
2546.40	H	-49.23	-47.14	3.77	-5.85	-13.01	-36.22

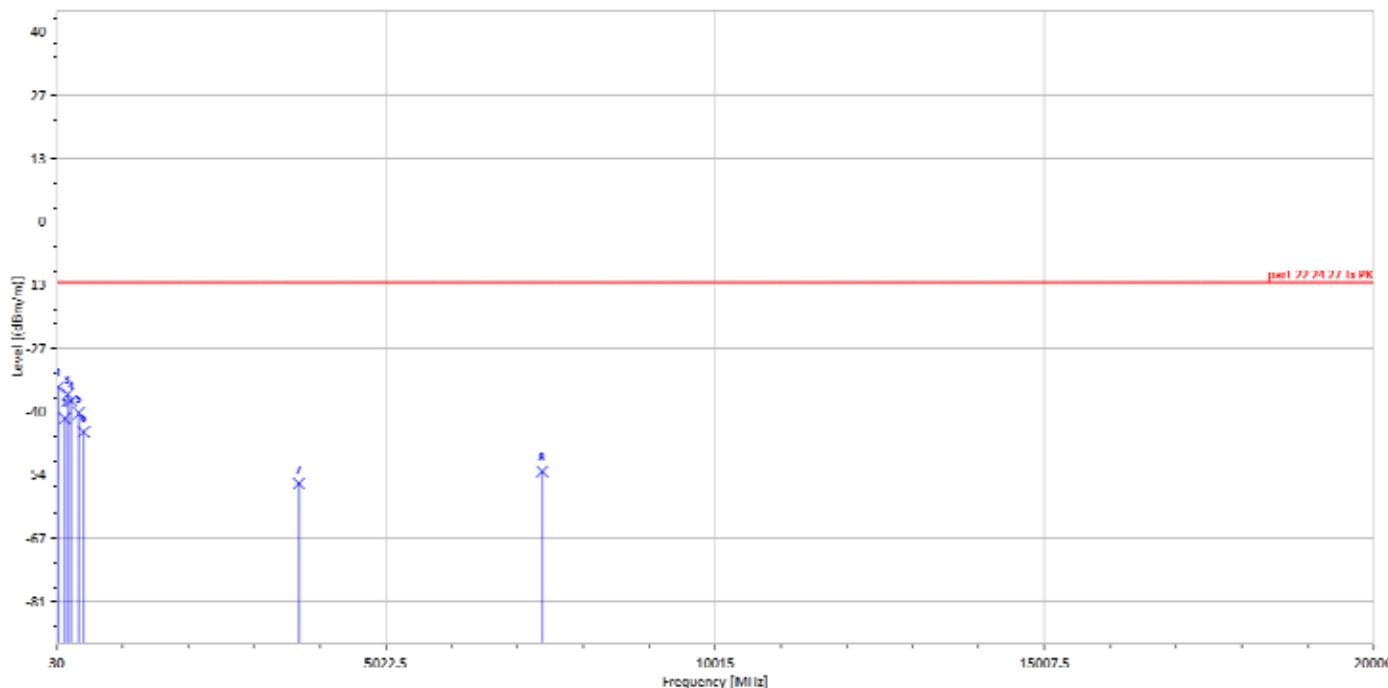
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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : GPRS_1900 Test Date : 2016/1/15
 Fundamental Frequency : 1850.2 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



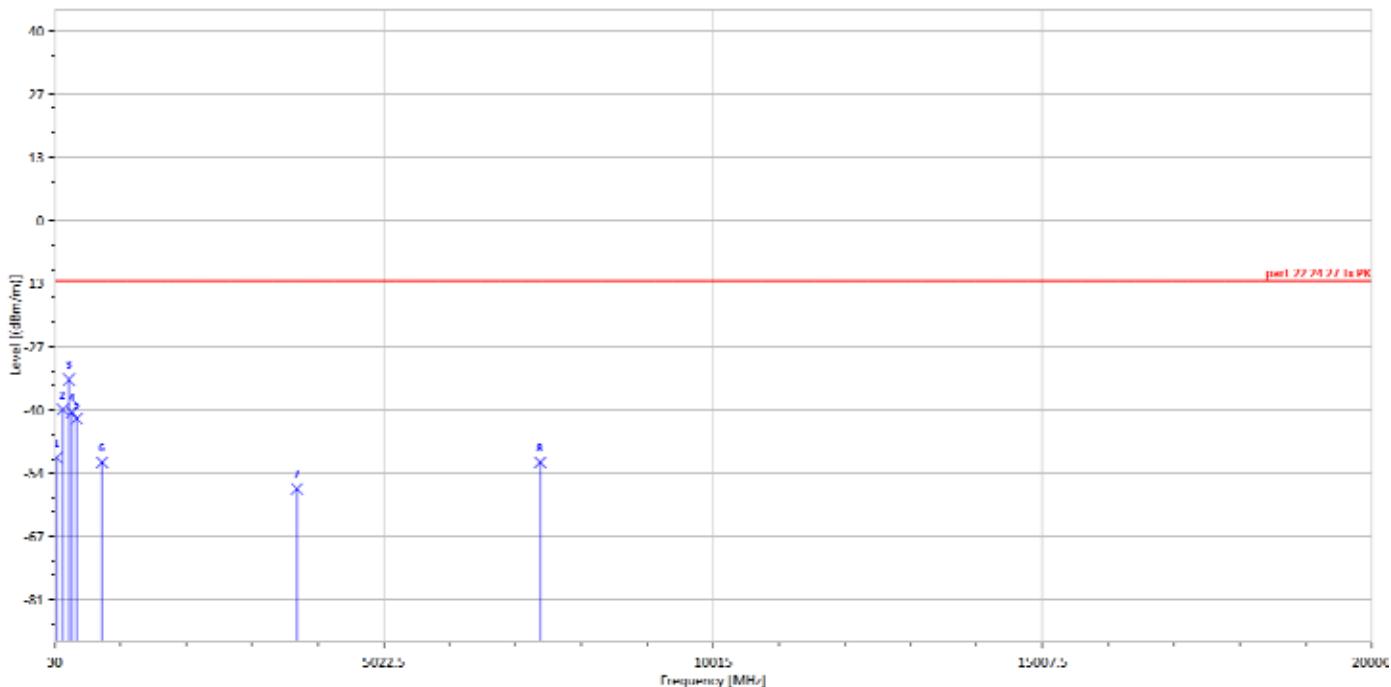
Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
60.07	S	-35.39	-31.26	-3.17	-0.96	-13.01	-22.38
156.10	S	-41.97	-41.44	0.93	-1.46	-13.01	-28.96
203.63	S	-36.92	-39.04	3.86	-1.74	-13.01	-23.91
252.13	S	-38.37	-39.18	2.66	-1.85	-13.01	-25.36
371.44	S	-40.96	-41.92	3.34	-2.37	-13.01	-27.95
444.19	S	-44.88	-46.09	3.57	-2.37	-13.01	-31.87
3700.40	H	-56.00	-55.60	6.53	-6.93	-13.01	-42.99
7400.80	H	-53.38	-53.09	9.37	-9.66	-13.01	-40.37

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Operation Mode : GPRS_1900 Test Date : 2016/1/15
 Fundamental Frequency : 1850.2 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



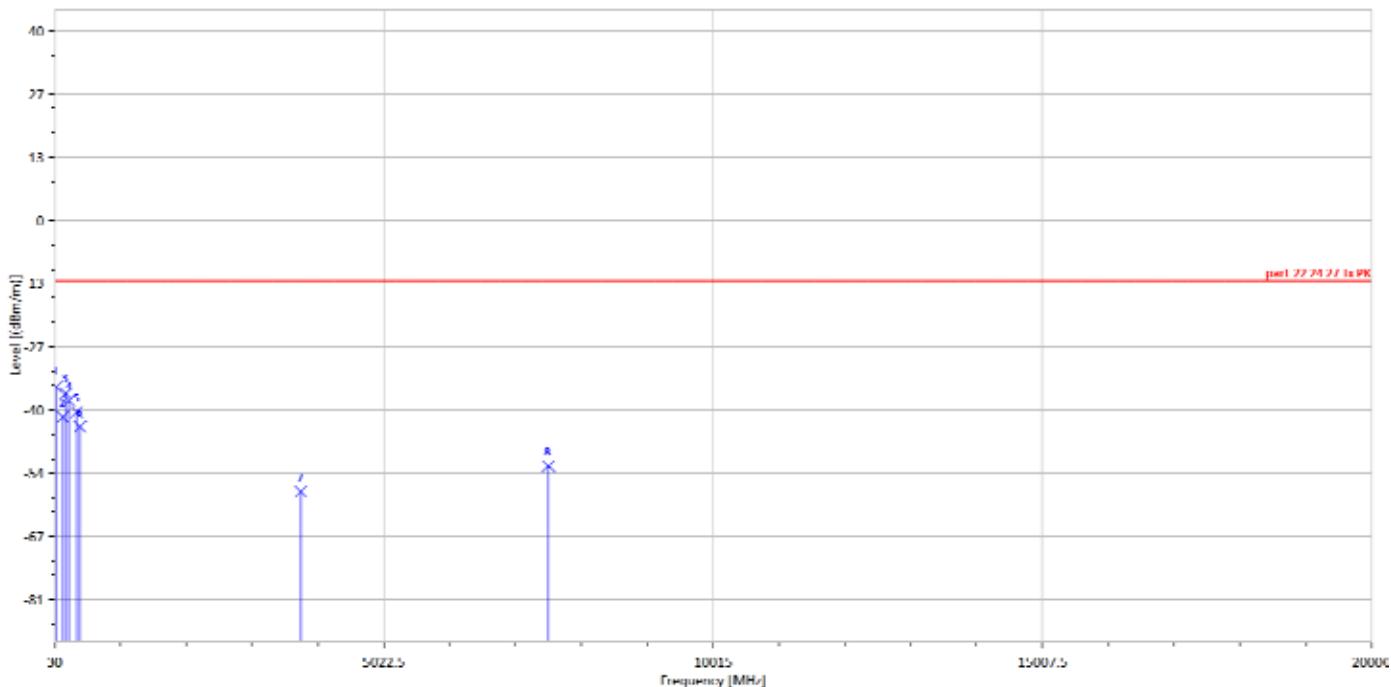
Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
63.95	S	-50.78	-47.10	-2.69	-0.99	-13.01	-37.77
156.10	S	-40.39	-39.86	0.93	-1.46	-13.01	-27.38
252.13	S	-34.03	-34.84	2.66	-1.85	-13.01	-21.02
299.66	S	-40.99	-42.40	3.50	-2.08	-13.01	-27.98
371.44	S	-42.36	-43.33	3.34	-2.37	-13.01	-29.35
743.92	S	-51.82	-53.48	5.15	-3.49	-13.01	-38.81
3700.40	H	-57.30	-56.90	6.53	-6.93	-13.01	-44.29
7400.40	H	-51.80	-51.57	9.37	-9.61	-13.01	-38.79

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Operation Mode : GPRS_1900 Test Date : 2016/1/15
 Fundamental Frequency : 1880 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



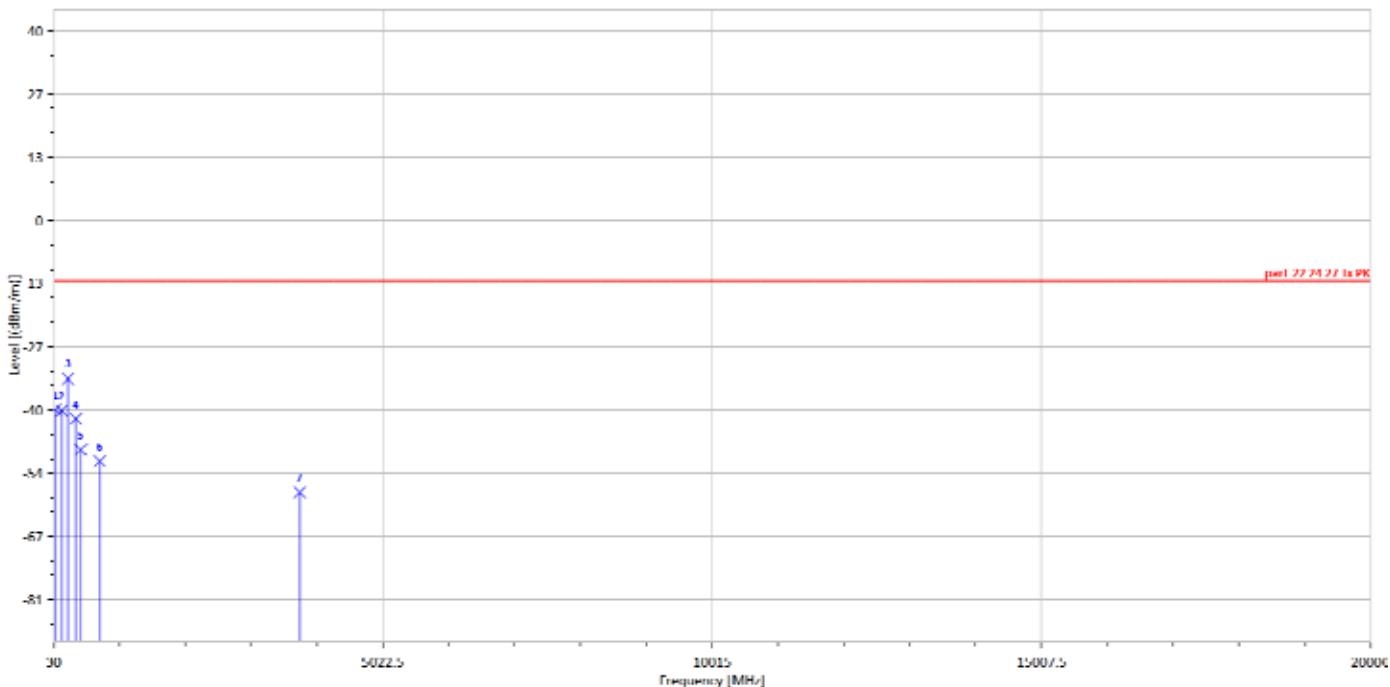
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
59.10	S	-35.52	-31.03	-3.54	-0.95	-13.01	-22.51
156.10	S	-42.01	-41.48	0.93	-1.46	-13.01	-29.00
203.63	S	-36.93	-39.05	3.86	-1.74	-13.01	-23.92
252.13	S	-38.44	-39.25	2.66	-1.85	-13.01	-25.43
371.44	S	-40.93	-41.90	3.34	-2.37	-13.01	-27.92
419.94	S	-44.09	-44.81	3.37	-2.64	-13.01	-31.08
3760.00	H	-57.91	-57.63	6.55	-6.84	-13.01	-44.90
7520.00	H	-52.60	-52.27	9.47	-9.80	-13.01	-39.59

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Operation Mode : GPRS_1900 Test Date : 2016/1/15
 Fundamental Frequency : 1880 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



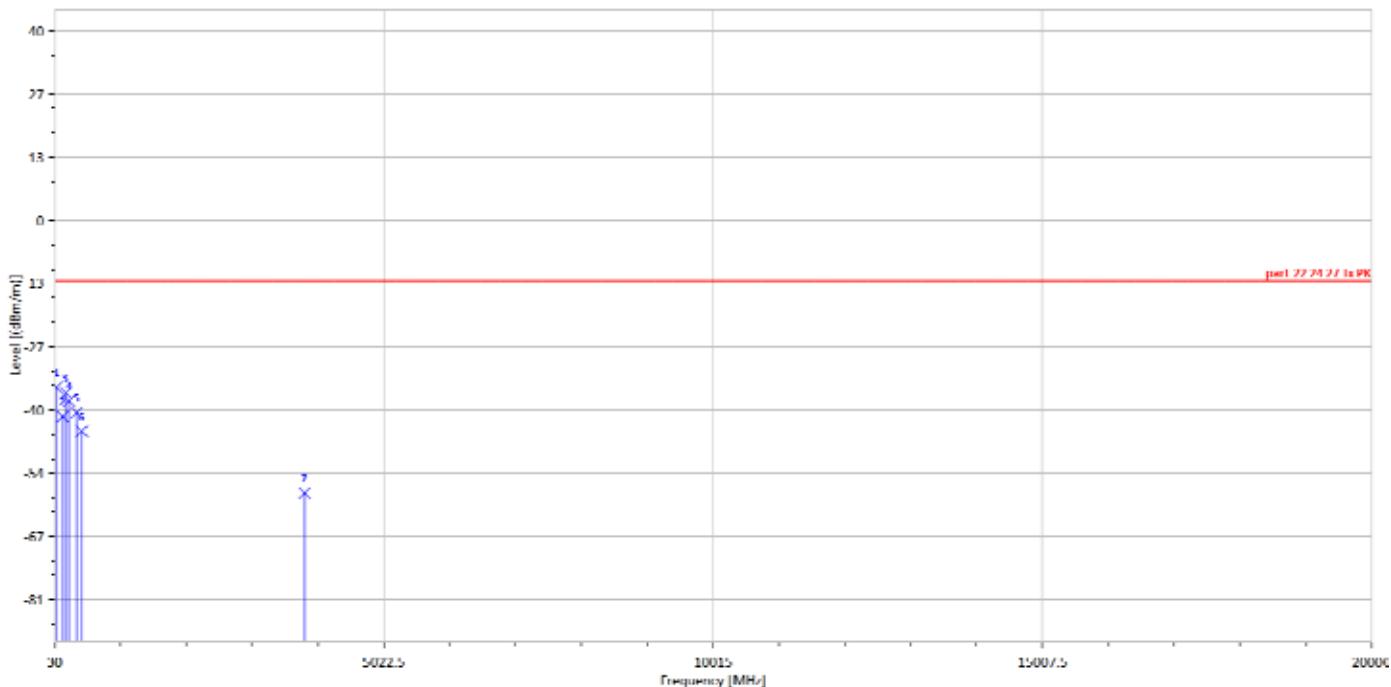
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
60.07	S	-40.41	-36.27	-3.17	-0.96	-13.01	-27.40
156.10	S	-40.60	-40.07	0.93	-1.46	-13.01	-27.59
252.13	S	-33.86	-34.67	2.66	-1.85	-13.01	-20.85
372.41	S	-42.39	-43.37	3.33	-2.35	-13.01	-29.38
444.19	S	-49.06	-50.26	3.57	-2.37	-13.01	-36.05
724.52	S	-51.55	-53.40	5.11	-3.26	-13.01	-38.54
3760.00	H	-58.06	-57.78	6.55	-6.84	-13.01	-45.05

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Operation Mode : GPRS_1900 Test Date : 2016/1/15
Fundamental Frequency : 1909.8 MHz Temp. / Humi. : 24.1deg_C/67RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical



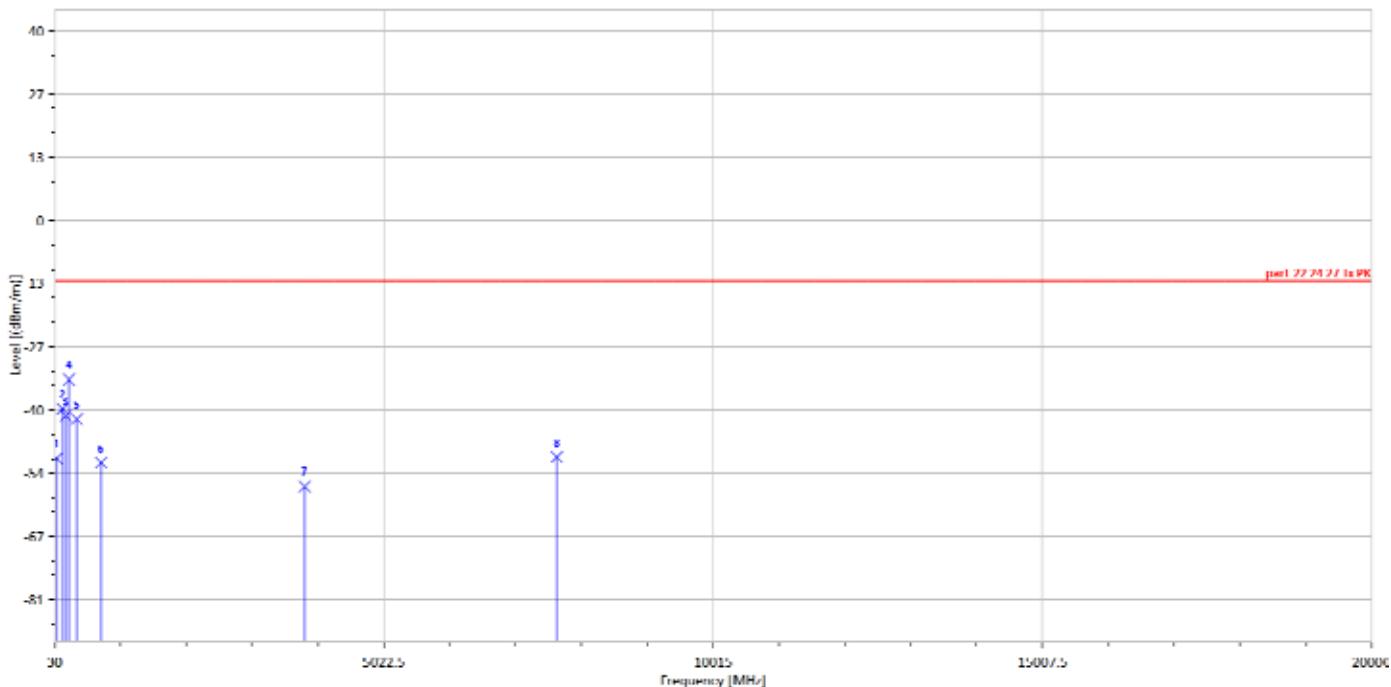
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
60.07	S	-35.61	-31.48	-3.17	-0.96	-13.01	-22.60
156.10	S	-41.90	-41.36	0.93	-1.46	-13.01	-28.89
203.63	S	-36.77	-38.89	3.86	-1.74	-13.01	-23.76
252.13	S	-38.54	-39.35	2.66	-1.85	-13.01	-25.53
371.44	S	-41.05	-42.02	3.34	-2.37	-13.01	-28.04
444.19	S	-45.06	-46.26	3.57	-2.37	-13.01	-32.05
3819.60	H	-58.22	-57.87	6.58	-6.92	-13.01	-45.21

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Operation Mode : GPRS_1900 Test Date : 2016/1/15
 Fundamental Frequency : 1909.8 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
63.95	S	-50.96	-47.28	-2.69	-0.99	-13.01	-37.95
156.10	S	-40.24	-39.71	0.93	-1.46	-13.01	-27.23
203.63	S	-41.72	-43.84	3.86	-1.74	-13.01	-28.71
252.13	S	-34.04	-34.85	2.66	-1.85	-13.01	-21.03
372.41	S	-42.48	-43.46	3.33	-2.35	-13.01	-29.47
730.34	S	-51.87	-53.77	5.12	-3.22	-13.01	-38.86
3819.60	H	-56.82	-56.48	6.58	-6.92	-13.01	-43.81
7639.20	H	-50.68	-50.30	9.59	-9.97	-13.01	-37.67

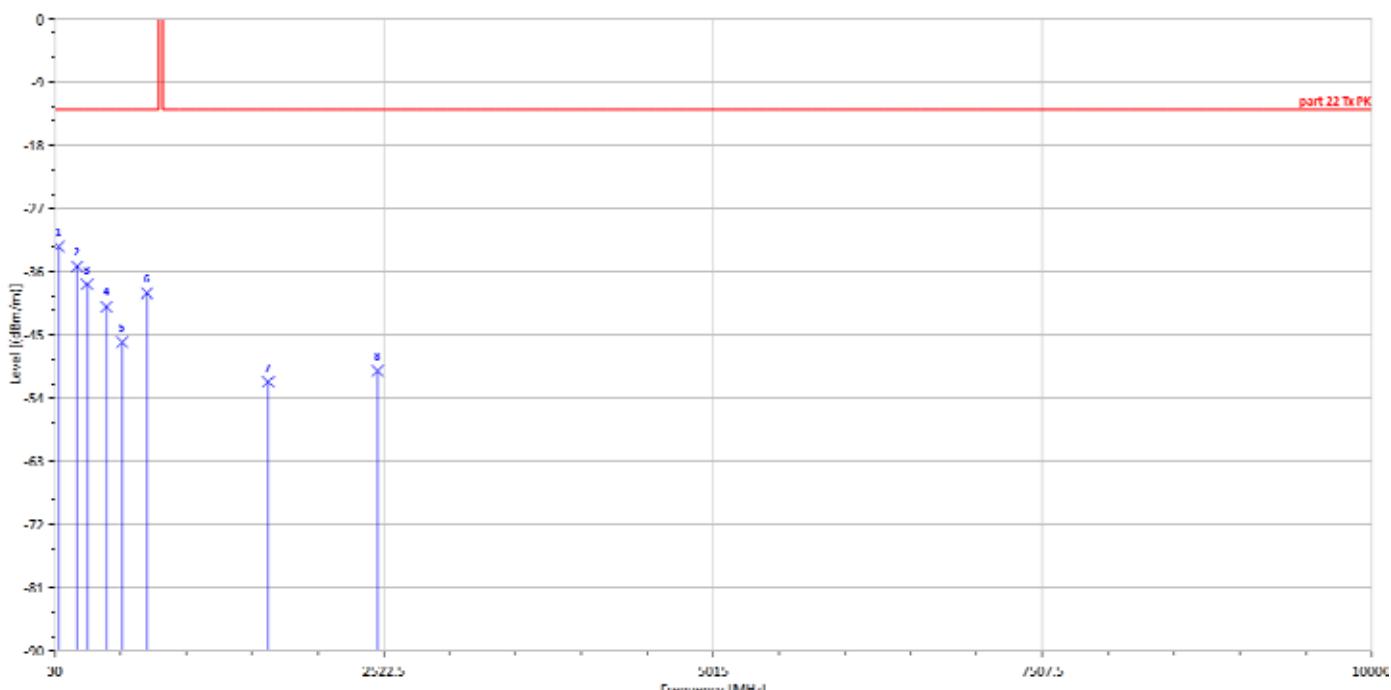
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Antenna 3*Radiated Spurious Emission Measurement Result: GPRS 850 Mode**

Operation Mode :	GPRS_850	Test Date :	2016/2/25
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	24.1deg_C/67RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



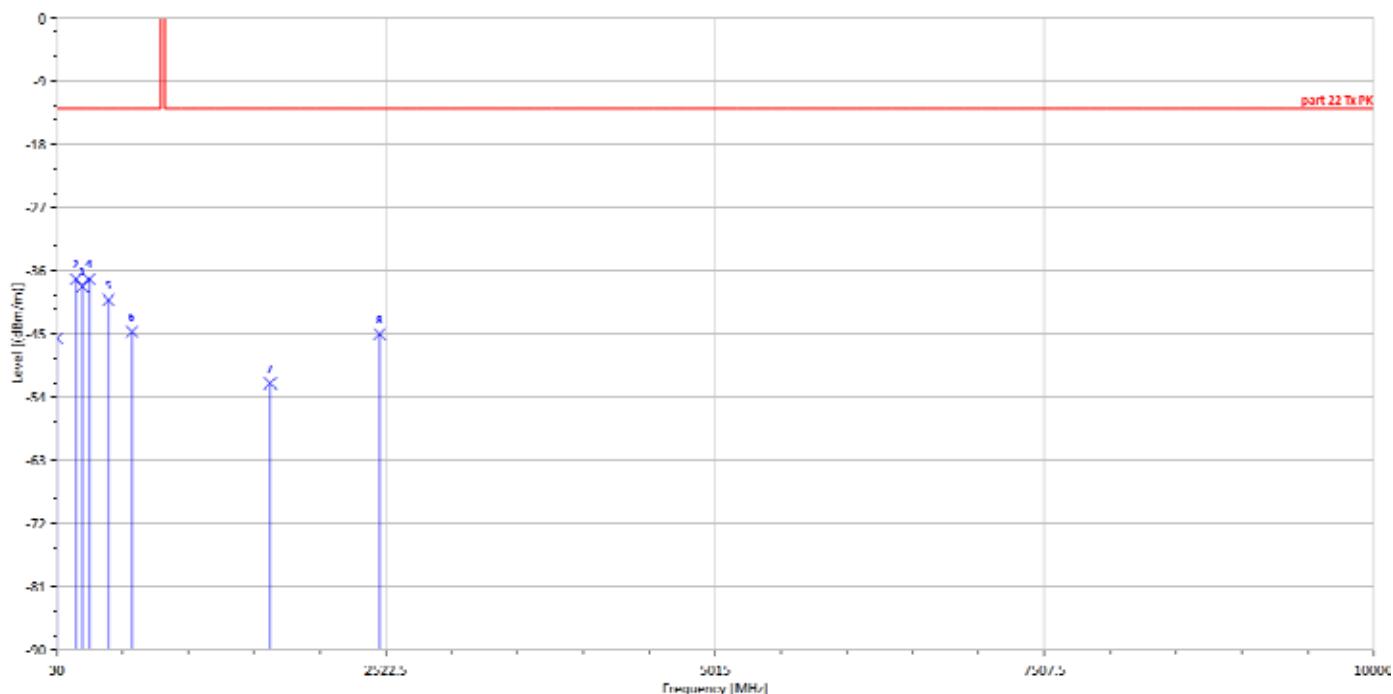
Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
62.01	S	-32.44	-28.64	-2.81	-1.00	-13	-19.44
203.63	S	-35.31	-37.41	3.76	-1.67	-13	-22.31
275.41	S	-37.89	-39.43	3.46	-1.92	-13	-24.89
419.94	S	-41.00	-42.51	3.81	-2.30	-13	-28.00
540.22	S	-46.07	-47.61	4.26	-2.73	-13	-33.07
730.34	S	-39.12	-41.28	5.46	-3.31	-13	-26.12
1648.40	H	-51.79	-53.83	6.75	-4.72	-13	-38.79
2472.60	H	-50.20	-52.60	8.23	-5.84	-13	-37.20

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Operation Mode : GPRS_850 Test Date : 2016/2/25
Fundamental Frequency : 824.2 MHz Temp. / Humi. : 24.1deg_C/67RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
34.85	S	-45.66	-26.76	-18.19	-0.71	-13	-32.66
179.38	S	-37.28	-39.27	3.50	-1.52	-13	-24.28
227.88	S	-38.34	-40.72	4.16	-1.78	-13	-25.34
275.41	S	-37.27	-38.80	3.46	-1.92	-13	-24.27
419.94	S	-40.18	-41.69	3.81	-2.30	-13	-27.18
600.36	S	-44.71	-46.70	4.72	-2.73	-13	-31.71
1648.40	H	-52.11	-54.15	6.75	-4.72	-13	-39.11
2472.60	H	-45.04	-47.44	8.23	-5.84	-13	-32.04

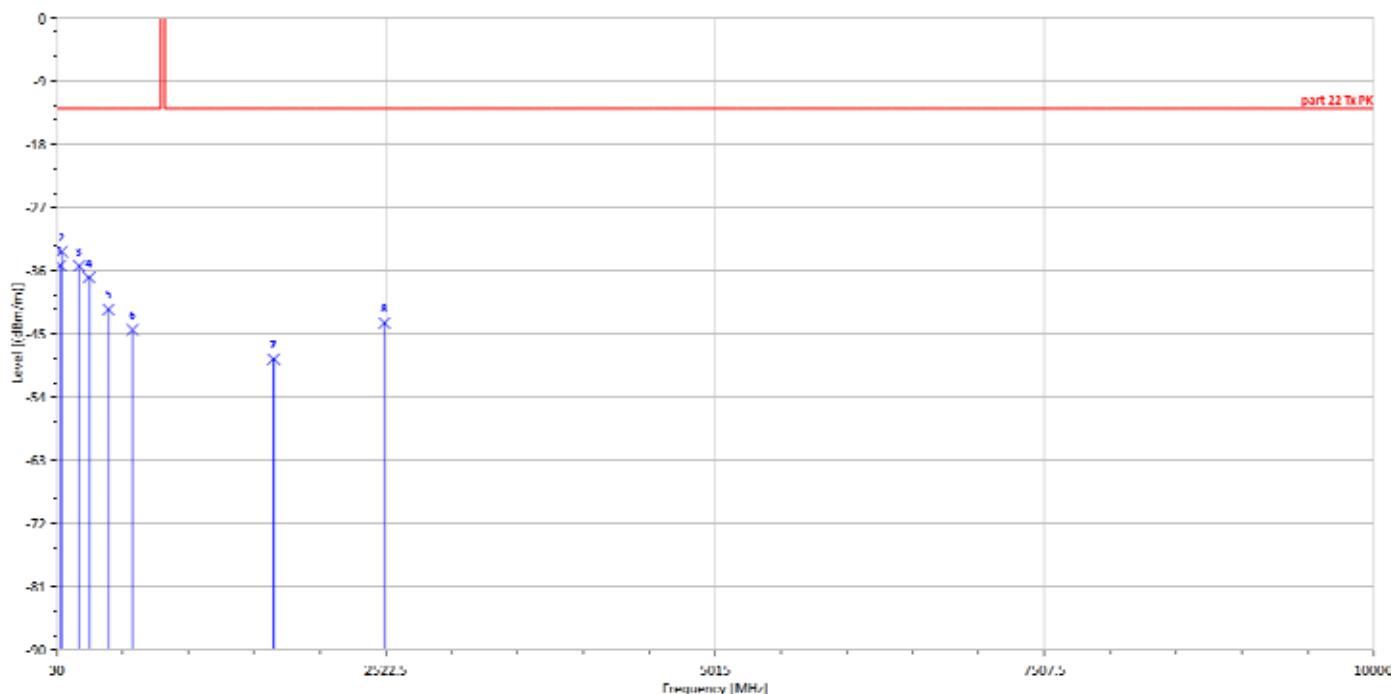
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Operation Mode : GPRS_850
 Fundamental Frequency : 836.6 MHz
 Operation Band : Tx CH Mid
 EUT Pol. : E2

Test Date : 2016/2/25
 Temp. / Humi. : 24.1deg_C/67RH
 Test Engineer : Pony
 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
59.10	S	-35.31	-31.01	-3.44	-0.87	-13	-22.31
71.71	S	-33.30	-30.58	-1.69	-1.03	-13	-20.30
203.63	S	-35.39	-37.48	3.76	-1.67	-13	-22.39
275.41	S	-37.05	-38.58	3.46	-1.92	-13	-24.05
419.94	S	-41.51	-43.01	3.81	-2.30	-13	-28.51
604.24	S	-44.43	-46.17	4.74	-3.00	-13	-31.43
1673.20	H	-48.64	-50.70	6.84	-4.78	-13	-35.64
2509.80	H	-43.45	-45.83	8.27	-5.89	-13	-30.45

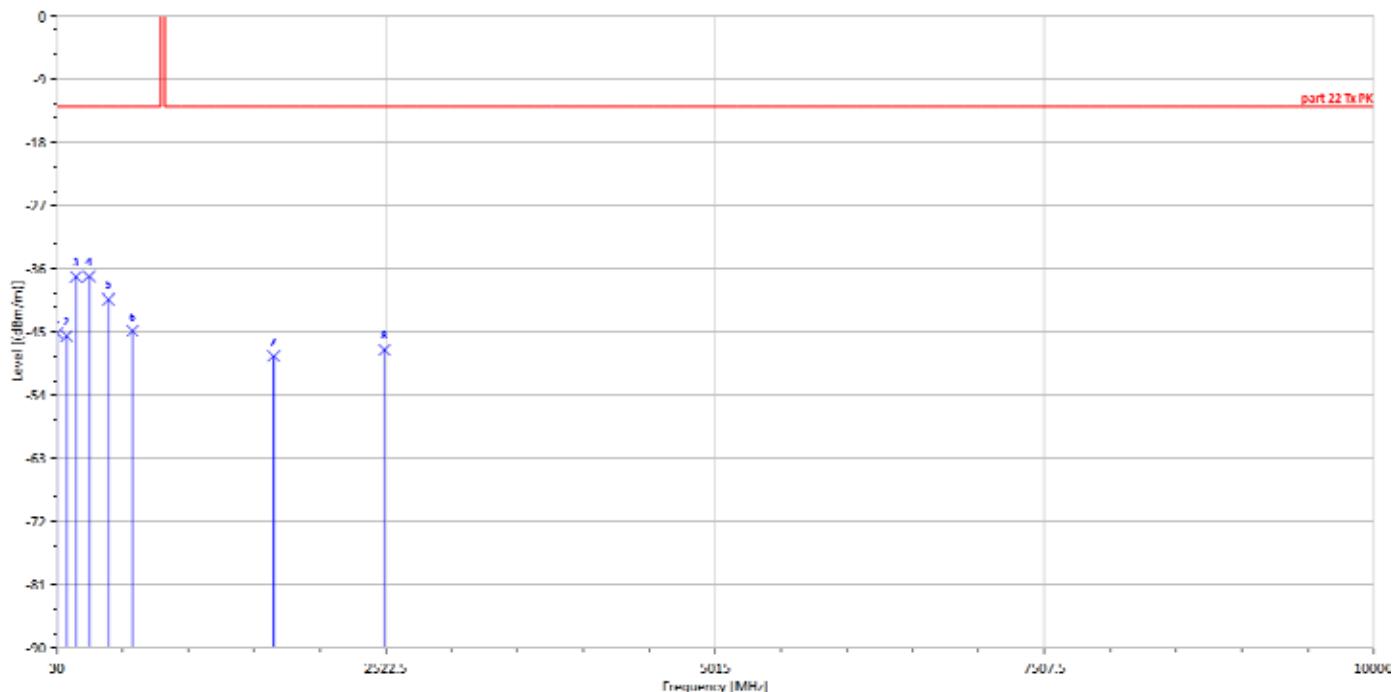
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Operation Mode : GPRS_850
Fundamental Frequency : 836.6 MHz
Operation Band : Tx CH Mid
EUT Pol. : E2

Test Date : 2016/2/25
Temp. / Humi. : 24.1deg_C/67RH
Test Engineer : Pony
Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
34.85	S	-45.21	-26.31	-18.19	-0.71	-13	-32.21
107.60	S	-45.61	-41.07	-3.32	-1.21	-13	-32.61
179.38	S	-37.22	-39.21	3.50	-1.52	-13	-24.22
275.41	S	-37.15	-38.69	3.46	-1.92	-13	-24.15
419.94	S	-40.37	-41.88	3.81	-2.30	-13	-27.37
604.24	S	-44.89	-46.63	4.74	-3.00	-13	-31.89
1673.20	H	-48.52	-50.58	6.84	-4.78	-13	-35.52
2509.80	H	-47.62	-49.99	8.27	-5.89	-13	-34.62

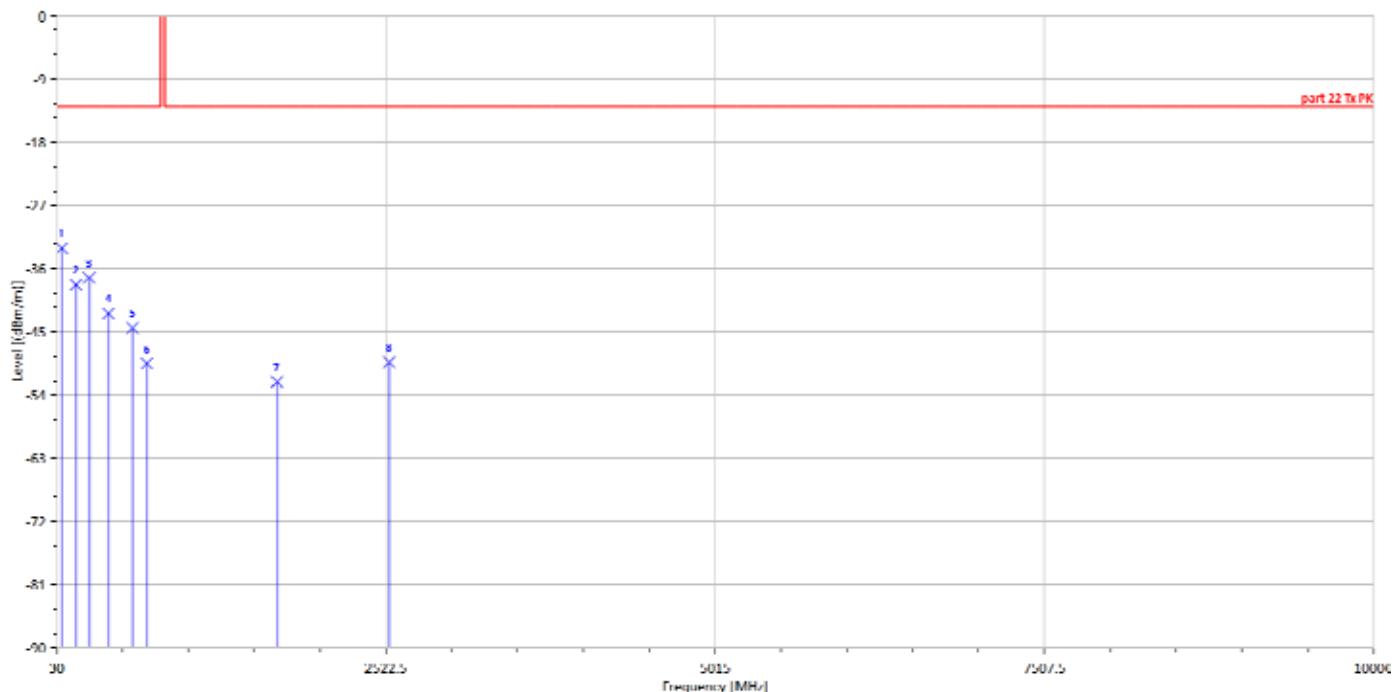
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Operation Mode : GPRS_850
Fundamental Frequency : 848.8 MHz
Operation Band : Tx CH High
EUT Pol. : E2

Test Date : 2016/2/25
Temp. / Humi. : 24.1deg_C/67RH
Test Engineer : Pony
Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
71.71	S	-33.12	-30.39	-1.69	-1.03	-13	-20.12
179.38	S	-38.37	-40.35	3.50	-1.52	-13	-25.37
275.41	S	-37.37	-38.90	3.46	-1.92	-13	-24.37
419.94	S	-42.38	-43.89	3.81	-2.30	-13	-29.38
604.24	S	-44.44	-46.18	4.74	-3.00	-13	-31.44
713.85	S	-49.57	-52.14	5.46	-2.89	-13	-36.57
1697.60	H	-52.19	-54.31	6.92	-4.80	-13	-39.19
2546.40	H	-49.39	-51.81	8.33	-5.91	-13	-36.39

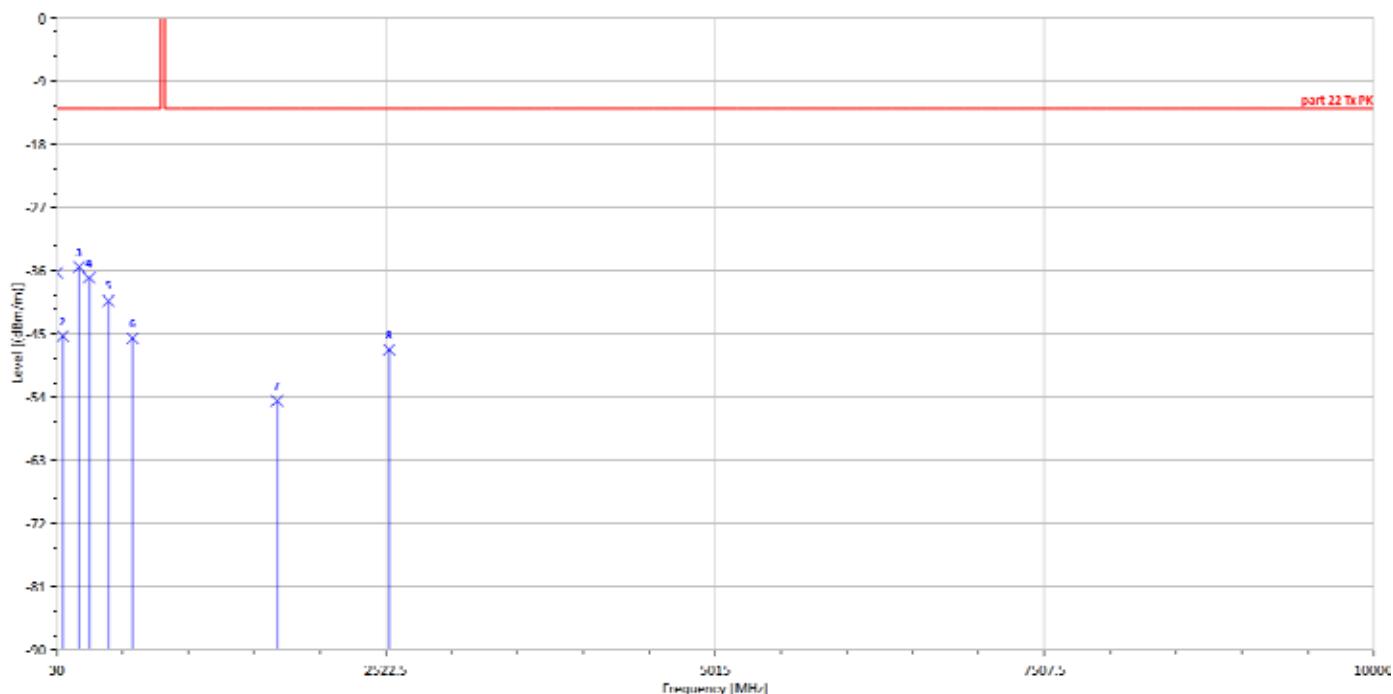
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Operation Mode : GPRS_850
Fundamental Frequency : 848.8 MHz
Operation Band : Tx CH High
EUT Pol. : E2

Test Date : 2016/2/25
Temp. / Humi. : 24.1deg_C/67RH
Test Engineer : Pony
Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
33.88	S	-36.34	-16.63	-19.03	-0.68	-13	-23.34
78.50	S	-45.33	-42.79	-1.52	-1.03	-13	-32.33
203.63	S	-35.50	-37.59	3.76	-1.67	-13	-22.50
275.41	S	-37.09	-38.62	3.46	-1.92	-13	-24.09
419.94	S	-40.29	-41.80	3.81	-2.30	-13	-27.29
604.24	S	-45.65	-47.40	4.74	-3.00	-13	-32.65
1697.60	H	-54.52	-56.64	6.92	-4.80	-13	-41.52
2546.40	H	-47.29	-49.71	8.33	-5.91	-13	-34.29

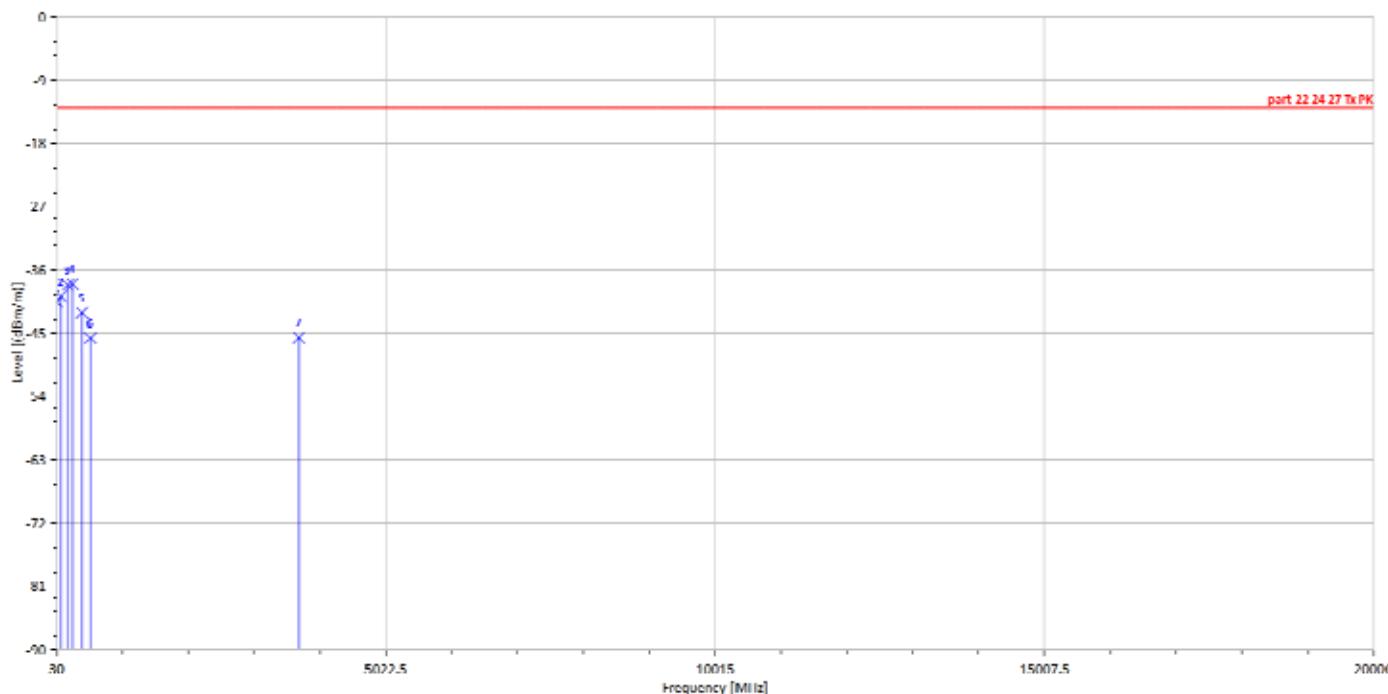
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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : GPRS_1900 Test Date : 2016/2/25
 Fundamental Frequency : 1850.2 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



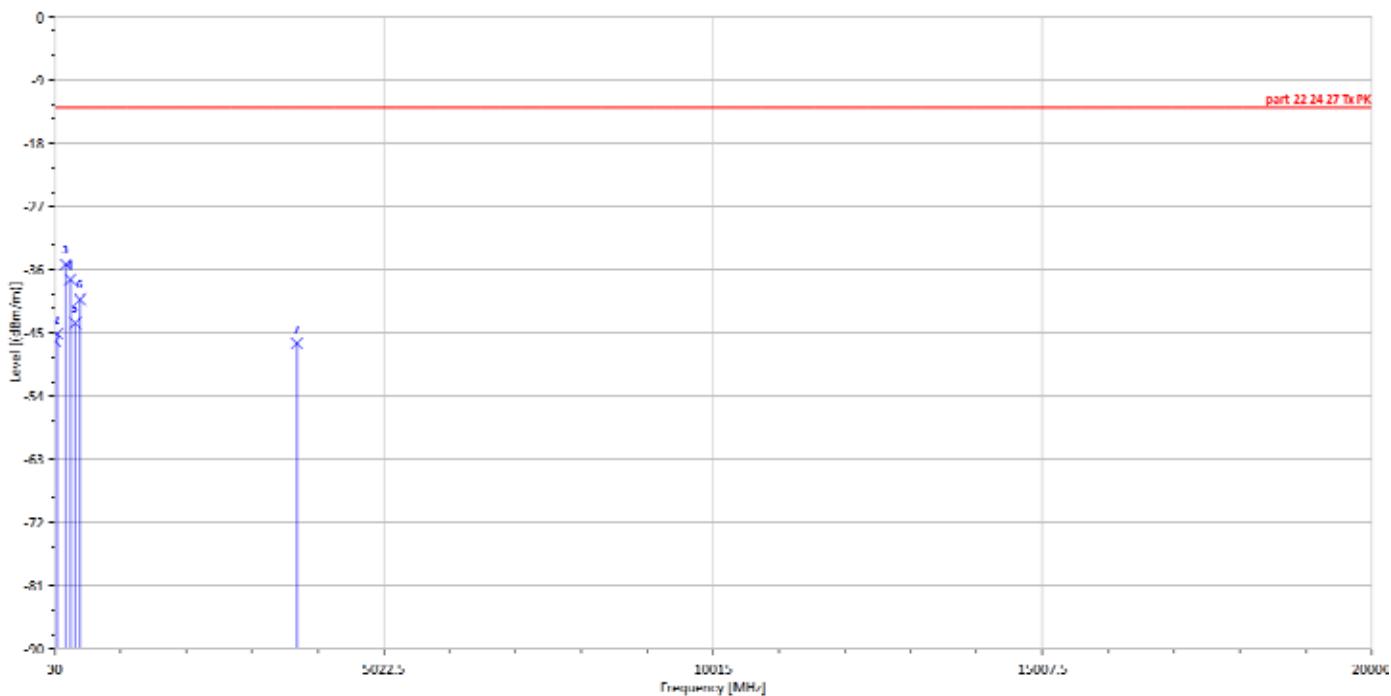
Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			SG Output Level dBm	Antenna Gain dBi				
35.82	S	-40.65	-22.53	-17.39	-0.73	-13.01	-27.64	
95.96	S	-39.84	-36.01	-2.68	-1.15	-13.01	-26.83	
203.63	S	-38.18	-40.27	3.76	-1.67	-13.01	-25.17	
275.41	S	-38.04	-39.58	3.46	-1.92	-13.01	-25.03	
419.94	S	-42.17	-43.68	3.81	-2.30	-13.01	-29.16	
540.22	S	-45.71	-47.24	4.26	-2.73	-13.01	-32.70	
3700.40	H	-45.64	-50.78	12.30	-7.15	-13.01	-32.63	

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Operation Mode : GPRS_1900 Test Date : 2016/2/25
 Fundamental Frequency : 1850.2 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
34.85	S	-46.17	-27.27	-18.19	-0.71	-13.01	-33.16
71.71	S	-45.15	-42.42	-1.69	-1.03	-13.01	-32.14
203.63	S	-35.31	-37.40	3.76	-1.67	-13.01	-22.30
275.41	S	-37.46	-38.99	3.46	-1.92	-13.01	-24.45
348.16	S	-43.60	-45.20	3.74	-2.15	-13.01	-30.59
419.94	S	-40.24	-41.75	3.81	-2.30	-13.01	-27.23
3700.40	H	-46.54	-51.68	12.30	-7.15	-13.01	-33.53

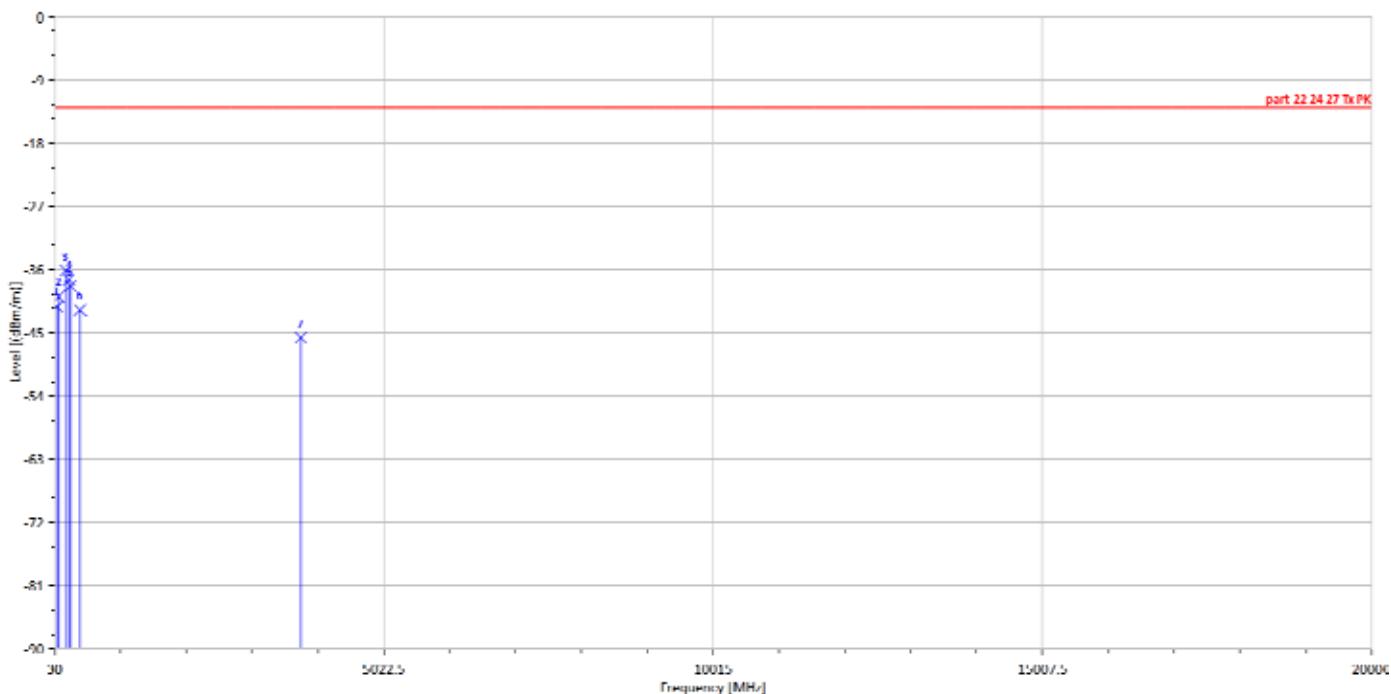
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Operation Mode : GPRS_1900
 Fundamental Frequency : 1880.0 MHz
 Operation Band : Tx CH Mid
 EUT Pol. : E2

Test Date : 2016/2/25
 Temp. / Humi. : 24.1deg_C/67RH
 Test Engineer : Pony
 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
71.71	S	-41.25	-38.52	-1.69	-1.03	-13.01	-28.24
95.96	S	-39.85	-36.03	-2.68	-1.15	-13.01	-26.84
203.63	S	-36.18	-38.27	3.76	-1.67	-13.01	-23.17
252.13	S	-37.48	-38.65	2.98	-1.81	-13.01	-24.47
275.41	S	-38.39	-39.92	3.46	-1.92	-13.01	-25.38
419.94	S	-41.73	-43.24	3.81	-2.30	-13.01	-28.72
3760.00	H	-45.71	-50.81	12.30	-7.21	-13.01	-32.70

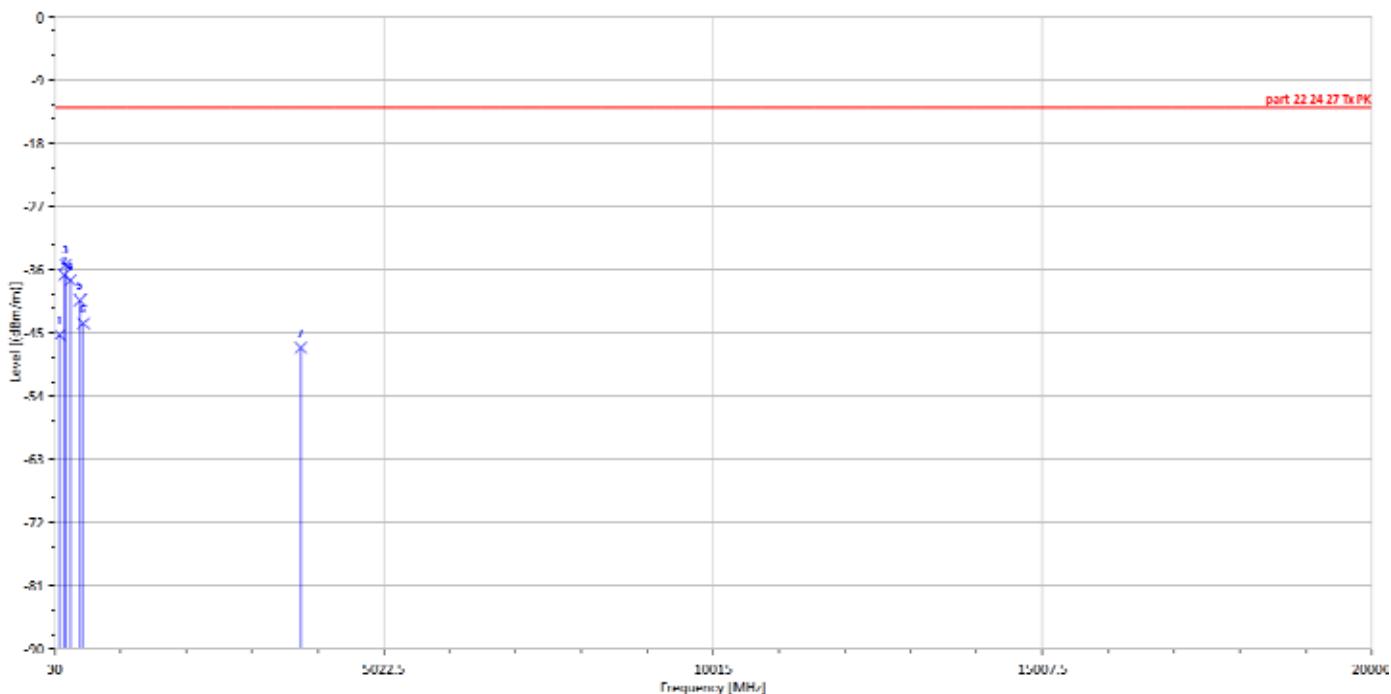
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Operation Mode : GPRS_1900
 Fundamental Frequency : 1880.0 MHz
 Operation Band : Tx CH Mid
 EUT Pol. : E2

Test Date : 2016/2/25
 Temp. / Humi. : 24.1deg_C/67RH
 Test Engineer : Pony
 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
107.60	S	-45.32	-40.78	-3.32	-1.21	-13.01	-32.31
179.38	S	-36.82	-38.81	3.50	-1.52	-13.01	-23.81
203.63	S	-35.31	-37.41	3.76	-1.67	-13.01	-22.30
275.41	S	-37.60	-39.14	3.46	-1.92	-13.01	-24.59
419.94	S	-40.34	-41.85	3.81	-2.30	-13.01	-27.33
467.47	S	-43.65	-45.21	4.16	-2.60	-13.01	-30.64
3760.00	H	-47.17	-52.26	12.30	-7.21	-13.01	-34.16

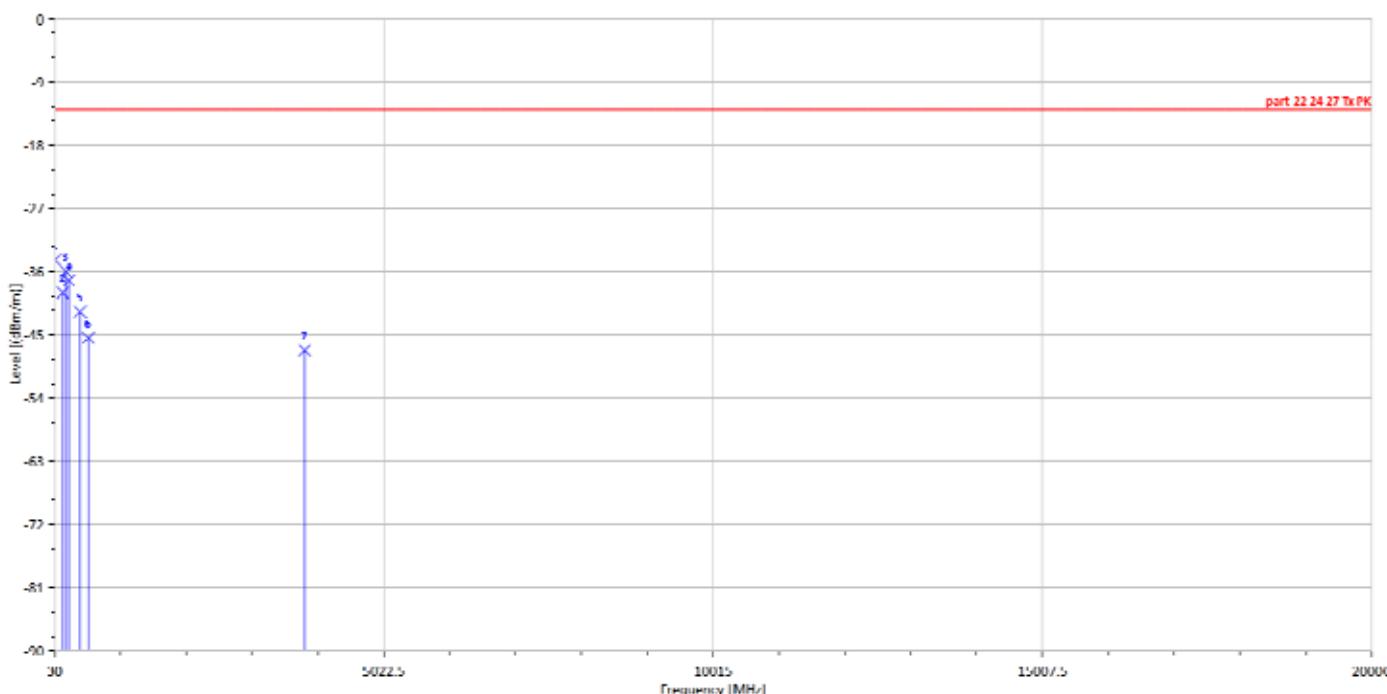
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Operation Mode : GPRS_1900
 Fundamental Frequency : 1909.8 MHz
 Operation Band : Tx CH High
 EUT Pol. : E2

Test Date : 2016/2/25
 Temp. / Humi. : 24.1deg_C/67RH
 Test Engineer : Pony
 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
37.76	S	-34.36	-17.85	-15.82	-0.70	-13.01	-21.35
155.13	S	-39.05	-38.44	0.93	-1.53	-13.01	-26.04
203.63	S	-36.03	-38.12	3.76	-1.67	-13.01	-23.02
252.13	S	-37.32	-38.49	2.98	-1.81	-13.01	-24.31
419.94	S	-41.70	-43.21	3.81	-2.30	-13.01	-28.69
540.22	S	-45.46	-47.00	4.26	-2.73	-13.01	-32.45
3819.60	H	-47.23	-52.26	12.30	-7.27	-13.01	-34.22

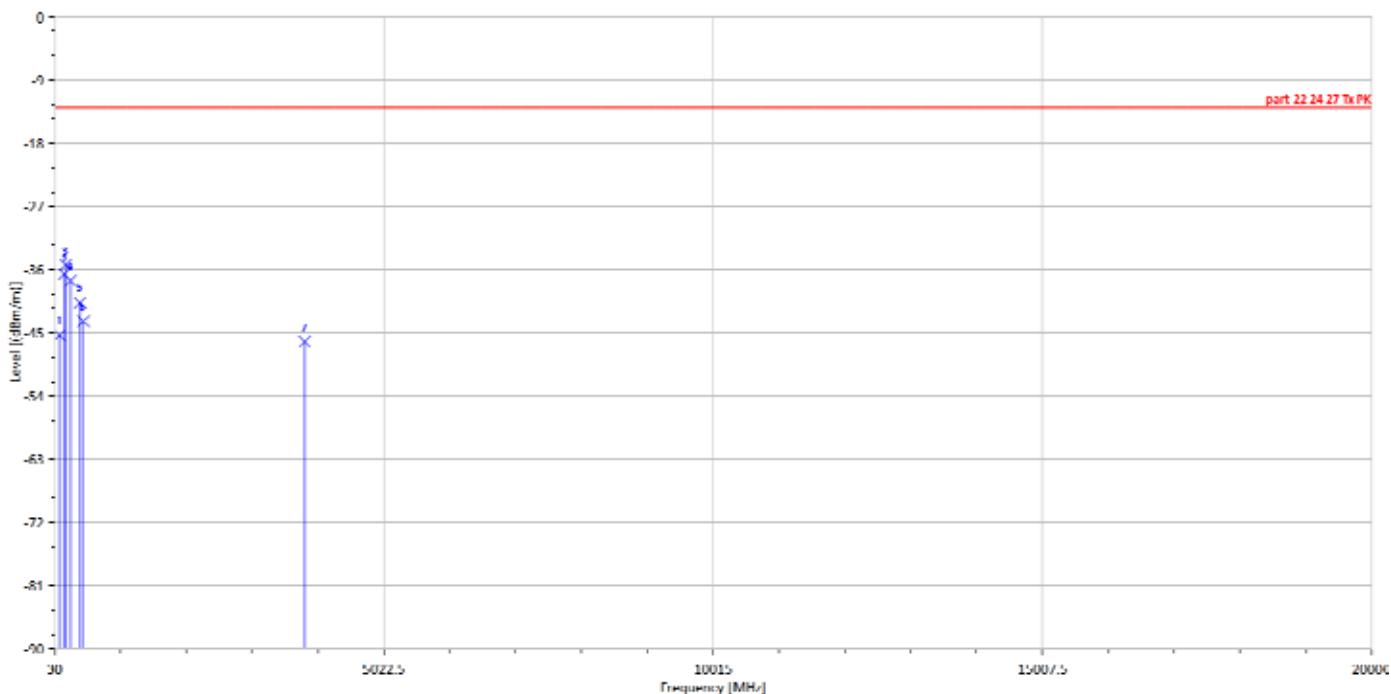
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Operation Mode : GPRS_1900
 Fundamental Frequency : 1909.8 MHz
 Operation Band : Tx CH High
 EUT Pol. : E2

Test Date : 2016/2/25
 Temp. / Humi. : 24.1deg_C/67RH
 Test Engineer : Pony
 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
107.60	S	-45.36	-40.82	-40.82	-3.32	-1.21	-13.01	-32.35
179.38	S	-36.70	-38.69	-38.69	3.50	-1.52	-13.01	-23.69
203.63	S	-35.36	-37.45	-37.45	3.76	-1.67	-13.01	-22.35
275.41	S	-37.66	-39.20	-39.20	3.46	-1.92	-13.01	-24.65
419.94	S	-40.70	-42.21	-42.21	3.81	-2.30	-13.01	-27.69
467.47	S	-43.34	-44.90	-44.90	4.16	-2.60	-13.01	-30.33
3819.60	H	-46.29	-51.32	-51.32	12.30	-7.27	-13.01	-33.28

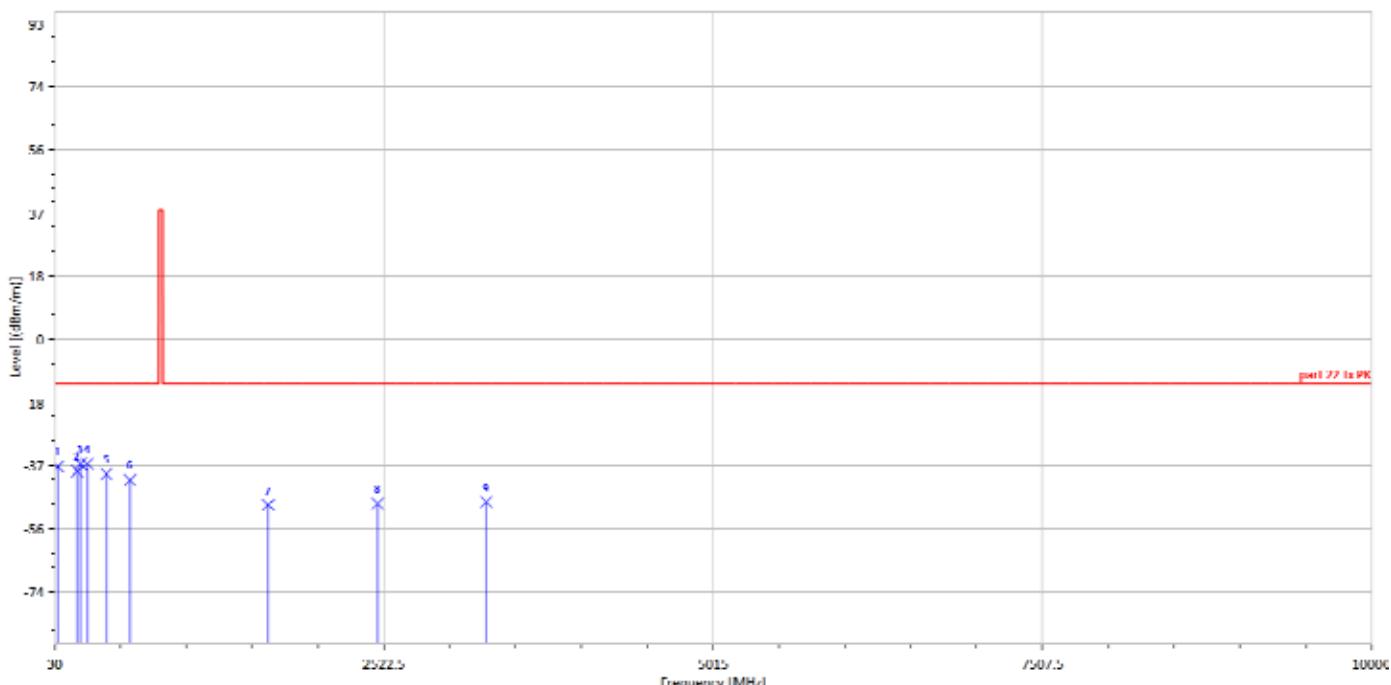
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Antenna 4*Radiated Spurious Emission Measurement Result: GPRS 850 Mode**

Operation Mode :	GPRS_850	Test Date :	2016/2/25
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	24.1deg_C/67RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



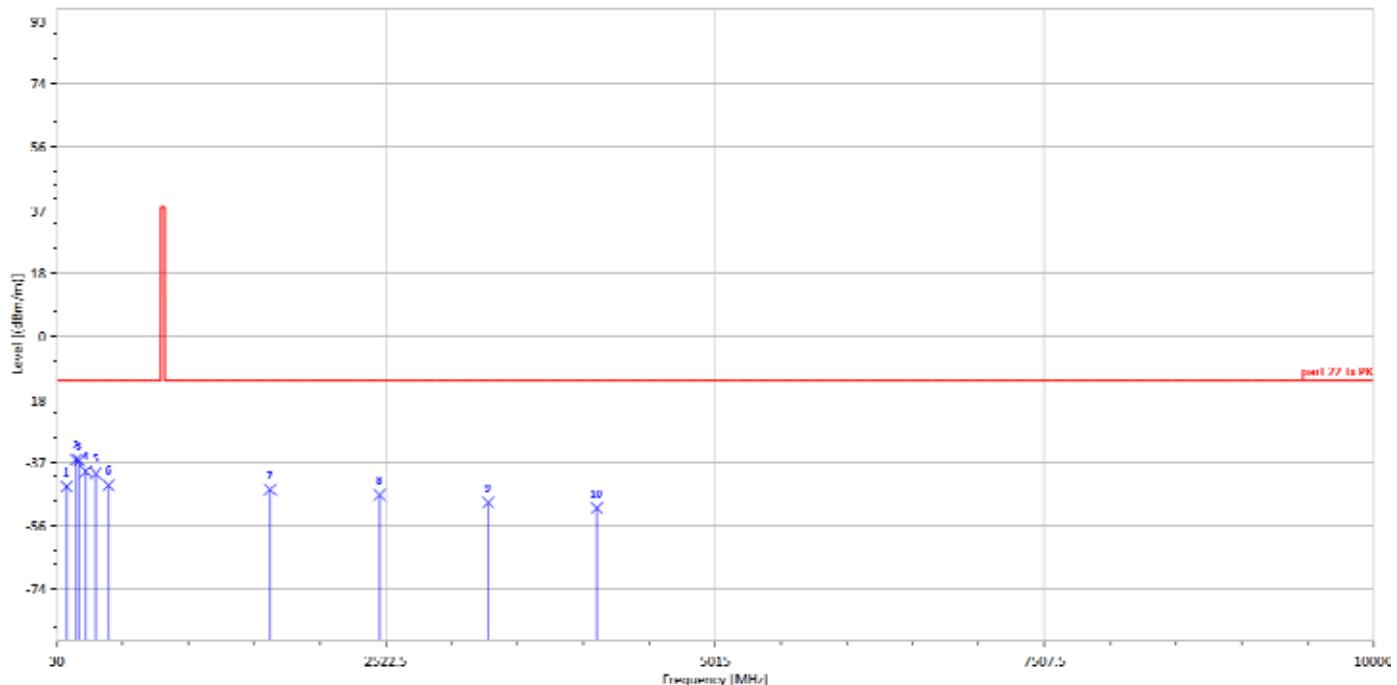
Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
56.19	S	-37.72	-32.28	-4.59	-0.85	-13	-24.72
203.63	S	-38.98	-41.08	3.76	-1.67	-13	-25.98
227.88	S	-36.92	-39.29	4.16	-1.78	-13	-23.92
275.41	S	-36.89	-38.42	3.46	-1.92	-13	-23.89
419.94	S	-39.84	-41.35	3.81	-2.30	-13	-26.84
600.36	S	-41.56	-43.55	4.72	-2.73	-13	-28.56
1648.40	H	-48.93	-50.96	6.75	-4.72	-13	-35.93
2472.60	H	-48.55	-50.95	8.23	-5.84	-13	-35.55
3296.80	H	-48.05	-51.07	9.74	-6.72	-13	-35.05

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Operation Mode : GPRS_850 Test Date : 2016/2/25
Fundamental Frequency : 824.2 MHz Temp. / Humi. : 24.1deg_C/67RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
107.60	S	-44.36	-39.82	-3.32	-1.21	-13	-31.36
179.38	S	-36.58	-38.57	3.50	-1.52	-13	-23.58
203.63	S	-36.78	-38.88	3.76	-1.67	-13	-23.78
252.13	S	-39.96	-41.13	2.98	-1.81	-13	-26.96
323.91	S	-40.54	-42.17	3.77	-2.15	-13	-27.54
419.94	S	-43.97	-45.47	3.81	-2.30	-13	-30.97
1648.40	H	-45.23	-47.27	6.75	-4.72	-13	-32.23
2472.60	H	-46.85	-49.24	8.23	-5.84	-13	-33.85
3296.80	H	-49.11	-52.13	9.74	-6.72	-13	-36.11
4121.00	H	-50.79	-53.43	10.20	-7.55	-13	-37.79

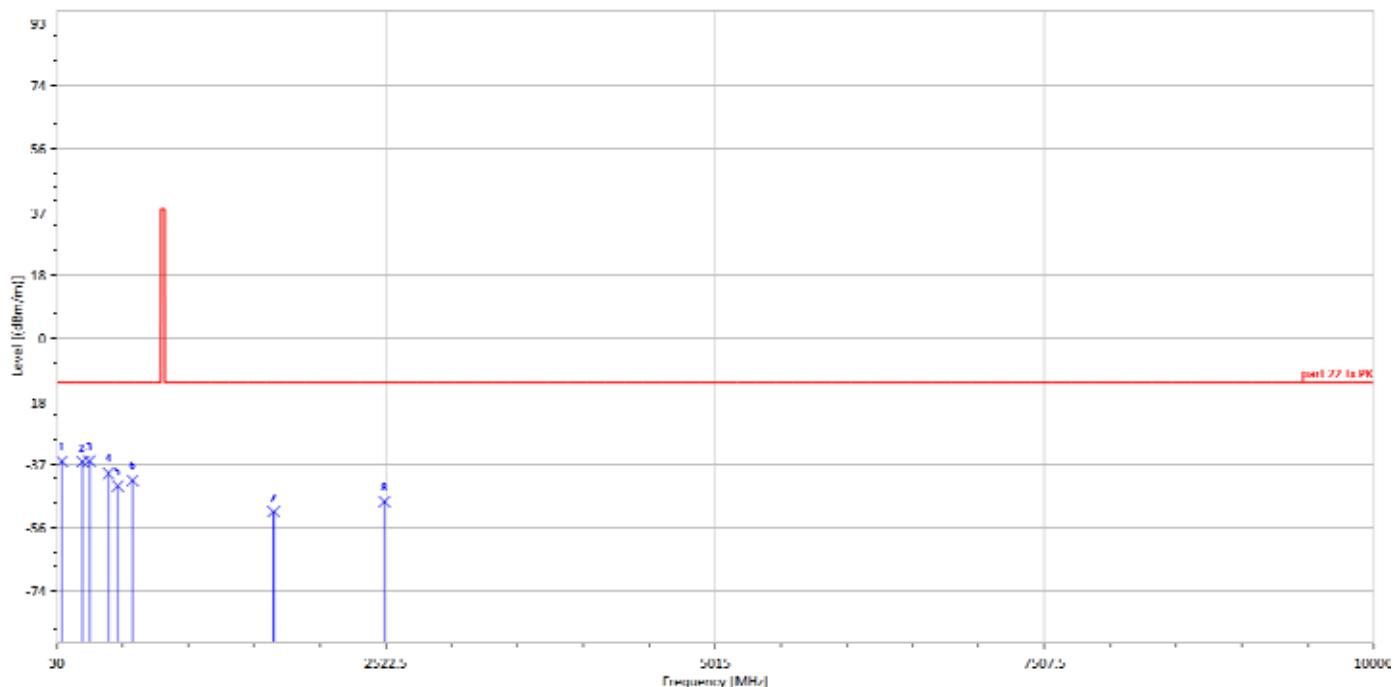
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Operation Mode : GPRS_850
 Fundamental Frequency : 836.6 MHz
 Operation Band : Tx CH Mid
 EUT Pol. : E2

Test Date : 2016/2/25
 Temp. / Humi. : 24.1deg_C/67RH
 Test Engineer : Pony
 Measurement Antenna Pol. : Vertical



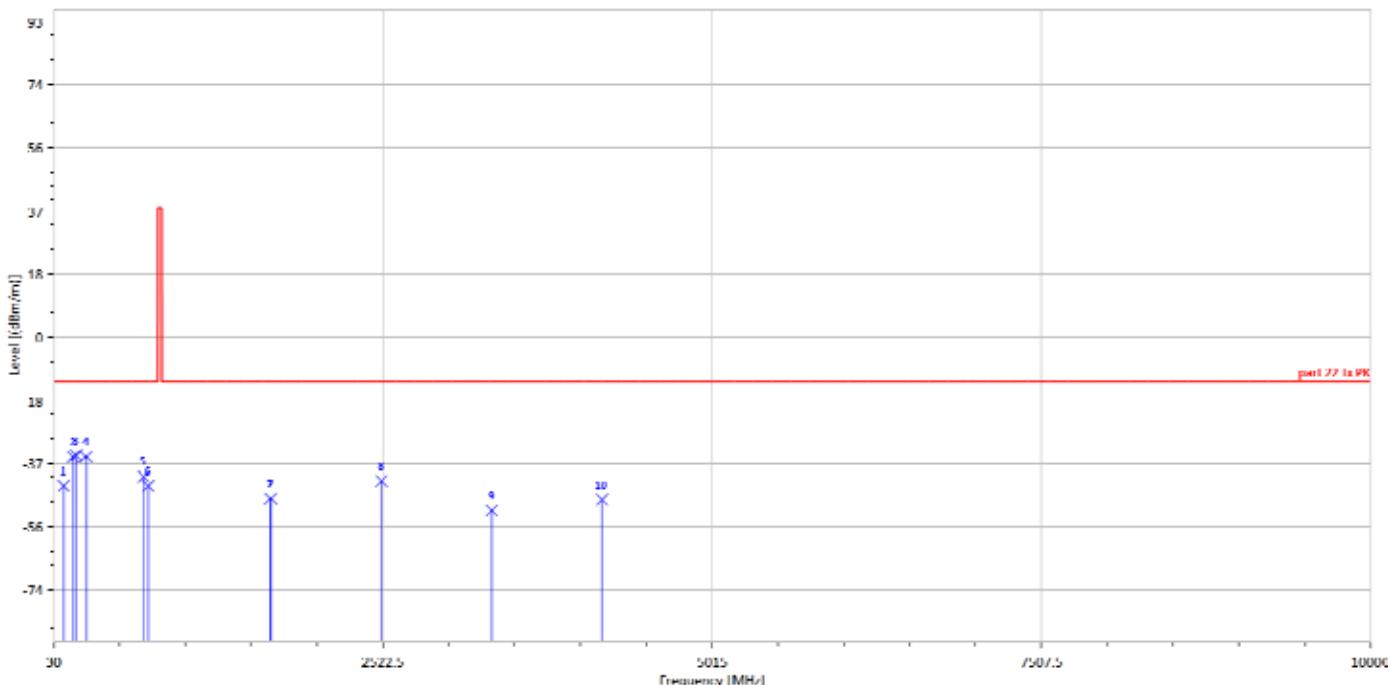
Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
71.71	S	-36.47	-33.75	-1.69	-1.03	-13	-23.47
227.88	S	-36.59	-38.97	4.16	-1.78	-13	-23.59
276.38	S	-36.36	-37.90	3.49	-1.95	-13	-23.36
419.94	S	-39.92	-41.43	3.81	-2.30	-13	-26.92
491.72	S	-43.57	-45.12	4.22	-2.67	-13	-30.57
604.24	S	-41.93	-43.67	4.74	-3.00	-13	-28.93
1673.20	H	-51.28	-53.34	6.84	-4.78	-13	-38.28
2509.80	H	-48.27	-50.64	8.27	-5.89	-13	-35.27

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Operation Mode : GPRS_850 Test Date : 2016/2/25
 Fundamental Frequency : 836.6 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
107.60	S	-43.86	-39.32	-3.32	-1.21	-13	-30.86
179.38	S	-35.40	-37.39	3.50	-1.52	-13	-22.40
203.63	S	-35.04	-37.14	3.76	-1.67	-13	-22.04
275.41	S	-35.36	-36.90	3.46	-1.92	-13	-22.36
712.88	S	-41.15	-43.64	5.46	-2.97	-13	-28.15
747.80	S	-43.89	-46.13	5.46	-3.22	-13	-30.89
1673.20	H	-47.62	-49.68	6.84	-4.78	-13	-34.62
2509.80	H	-42.38	-44.76	8.27	-5.89	-13	-29.38
3346.40	H	-51.18	-54.08	9.84	-6.94	-13	-38.18
4183.00	H	-47.97	-50.61	10.22	-7.59	-13	-34.97

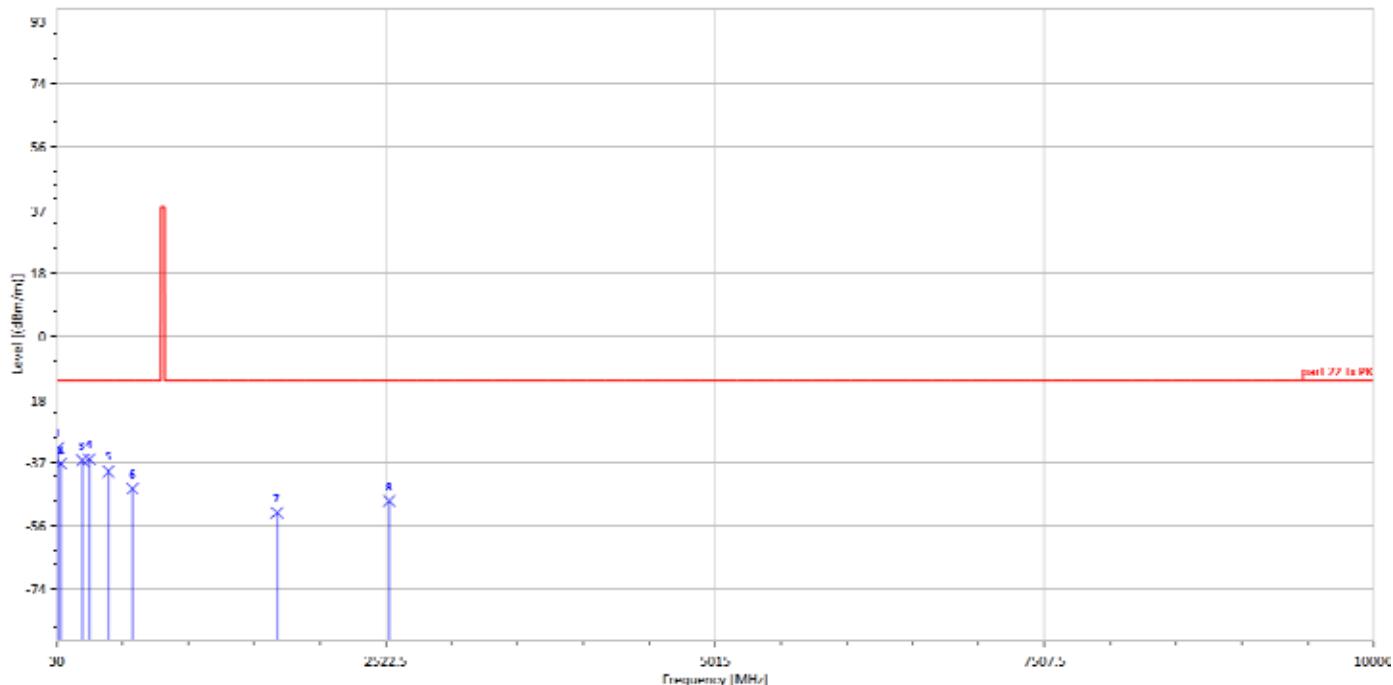
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Operation Mode : GPRS_850
 Fundamental Frequency : 848.8 MHz
 Operation Band : Tx CH High
 EUT Pol. : E2

Test Date : 2016/2/25
 Temp. / Humi. : 24.1deg_C/67RH
 Test Engineer : Pony
 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Margin
			Output Level dBm	Gain dBd	Loss dB	dBm	dB
43.58	S	-32.98	-20.91	-11.26	-0.80	-13	-19.98
63.95	S	-37.74	-34.26	-2.55	-0.93	-13	-24.74
227.88	S	-36.79	-39.17	4.16	-1.78	-13	-23.79
275.41	S	-36.40	-37.94	3.46	-1.92	-13	-23.40
419.94	S	-39.98	-41.49	3.81	-2.30	-13	-26.98
604.24	S	-44.99	-46.73	4.74	-3.00	-13	-31.99
1697.60	H	-52.15	-54.28	6.92	-4.80	-13	-39.15
2546.40	H	-48.62	-51.04	8.33	-5.91	-13	-35.62

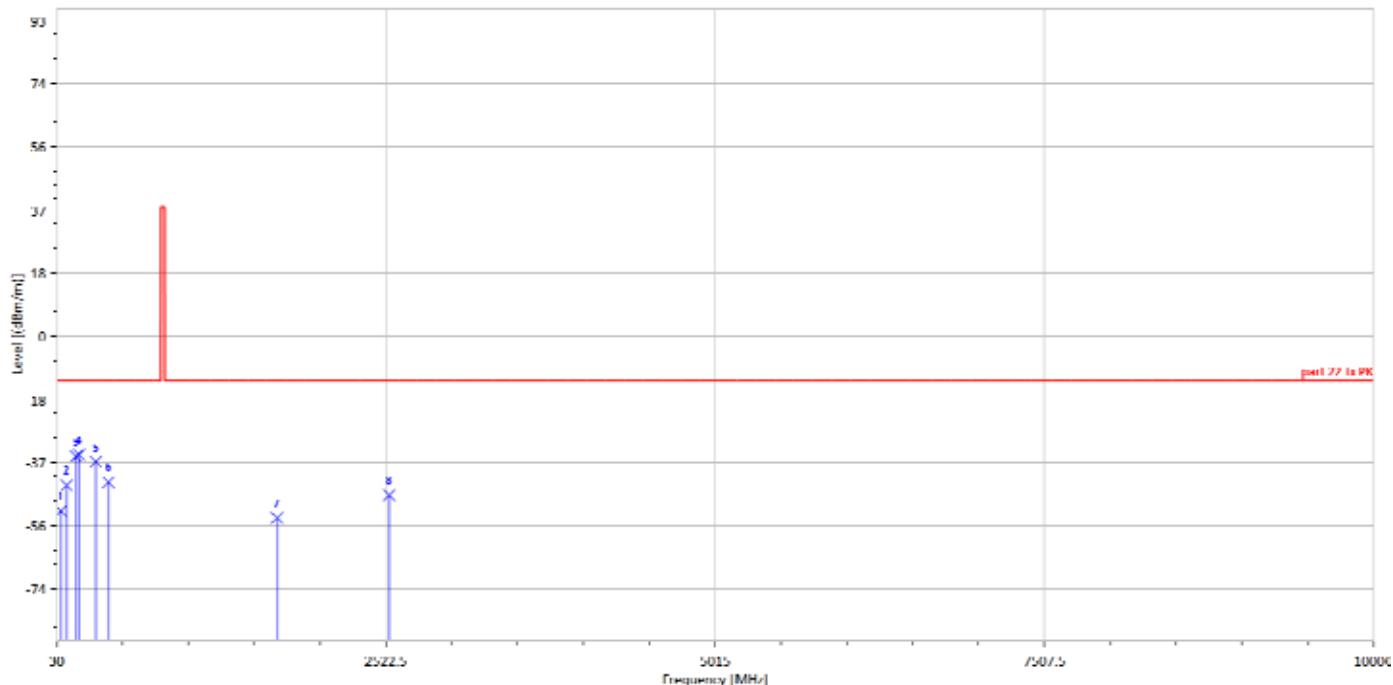
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Operation Mode : GPRS_850
 Fundamental Frequency : 848.8 MHz
 Operation Band : Tx CH High
 EUT Pol. : E2

Test Date : 2016/2/25
 Temp. / Humi. : 24.1deg_C/67RH
 Test Engineer : Pony
 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
63.95	S	-51.64	-48.16	-2.55	-0.93	-13	-38.64
107.60	S	-43.97	-39.43	-3.32	-1.21	-13	-30.97
179.38	S	-35.52	-37.51	3.50	-1.52	-13	-22.52
203.63	S	-35.11	-37.21	3.76	-1.67	-13	-22.11
323.91	S	-37.19	-38.82	3.77	-2.15	-13	-24.19
419.94	S	-43.03	-44.54	3.81	-2.30	-13	-30.03
1697.60	H	-53.71	-55.83	6.92	-4.80	-13	-40.71
2546.40	H	-46.90	-49.32	8.33	-5.91	-13	-33.90

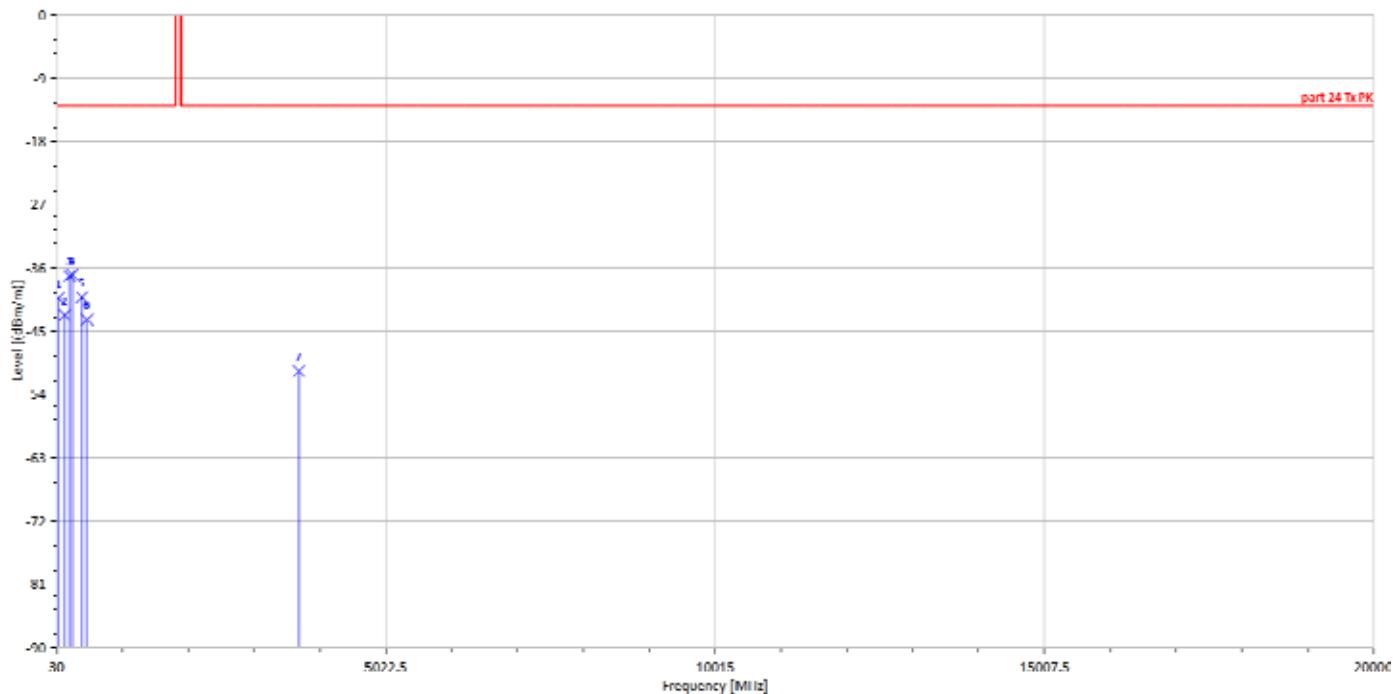
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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : GPRS_1900 Test Date : 2016/2/25
 Fundamental Frequency : 1850.2 MHz Temp. / Humi. : 24.1deg_C/67RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
60.07	S	-40.37	-36.42	-3.07	-0.89	-13.01	-27.36	
155.13	S	-42.84	-42.23	0.93	-1.53	-13.01	-29.83	
227.88	S	-37.17	-39.55	4.16	-1.78	-13.01	-24.16	
275.41	S	-37.04	-38.58	3.46	-1.92	-13.01	-24.03	
419.94	S	-40.24	-41.75	3.81	-2.30	-13.01	-27.23	
491.72	S	-43.46	-45.01	4.22	-2.67	-13.01	-30.45	
3700.40	H	-50.73	-55.88	12.30	-7.15	-13.01	-37.72	

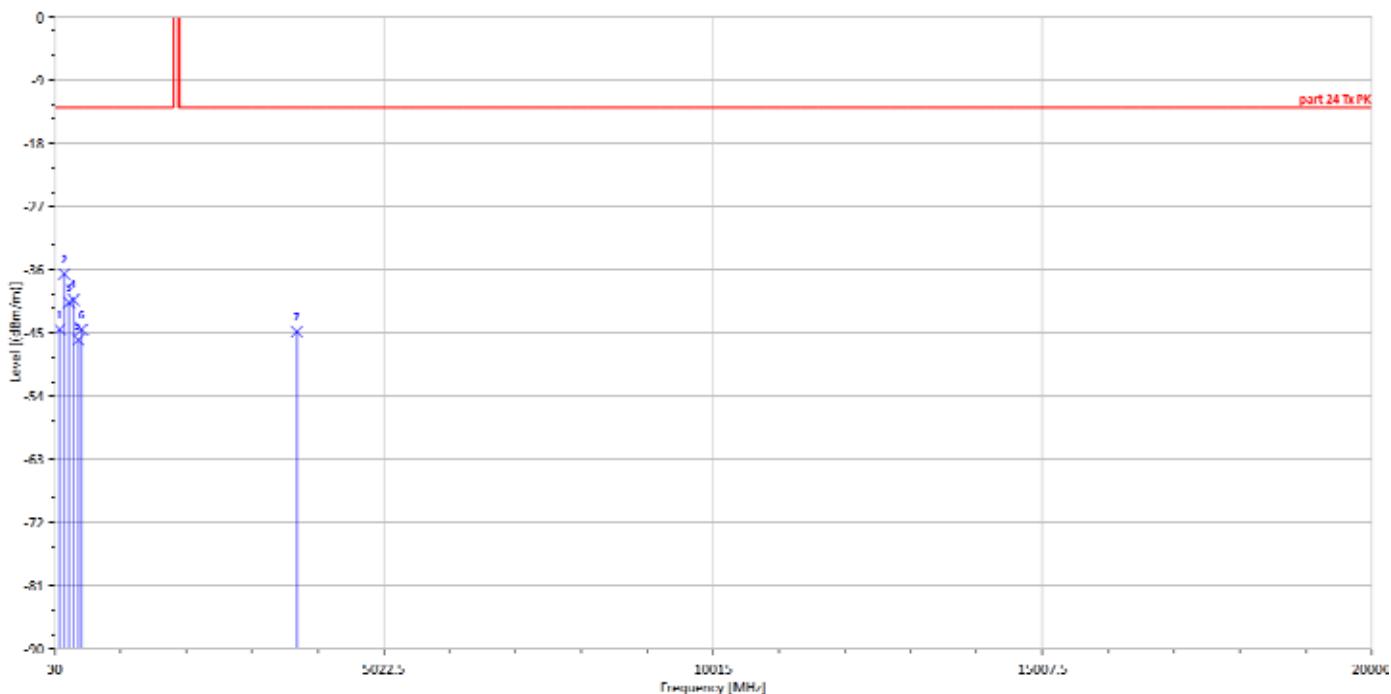
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Operation Mode : GPRS_1900
 Fundamental Frequency : 1850.2 MHz
 Operation Band : Tx CH Low
 EUT Pol. : E2

Test Date : 2016/2/25
 Temp. / Humi. : 24.1deg_C/67RH
 Test Engineer : Pony
 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
107.60	S	-44.49	-39.96	-3.32	-1.21	-13.01	-31.48
179.38	S	-36.66	-38.65	3.50	-1.52	-13.01	-23.65
252.13	S	-40.62	-41.79	2.98	-1.81	-13.01	-27.61
323.91	S	-40.31	-41.94	3.77	-2.15	-13.01	-27.30
395.69	S	-46.02	-47.27	3.61	-2.36	-13.01	-33.01
444.19	S	-44.54	-46.20	4.06	-2.40	-13.01	-31.53
3700.40	H	-44.86	-50.01	12.30	-7.15	-13.01	-31.85

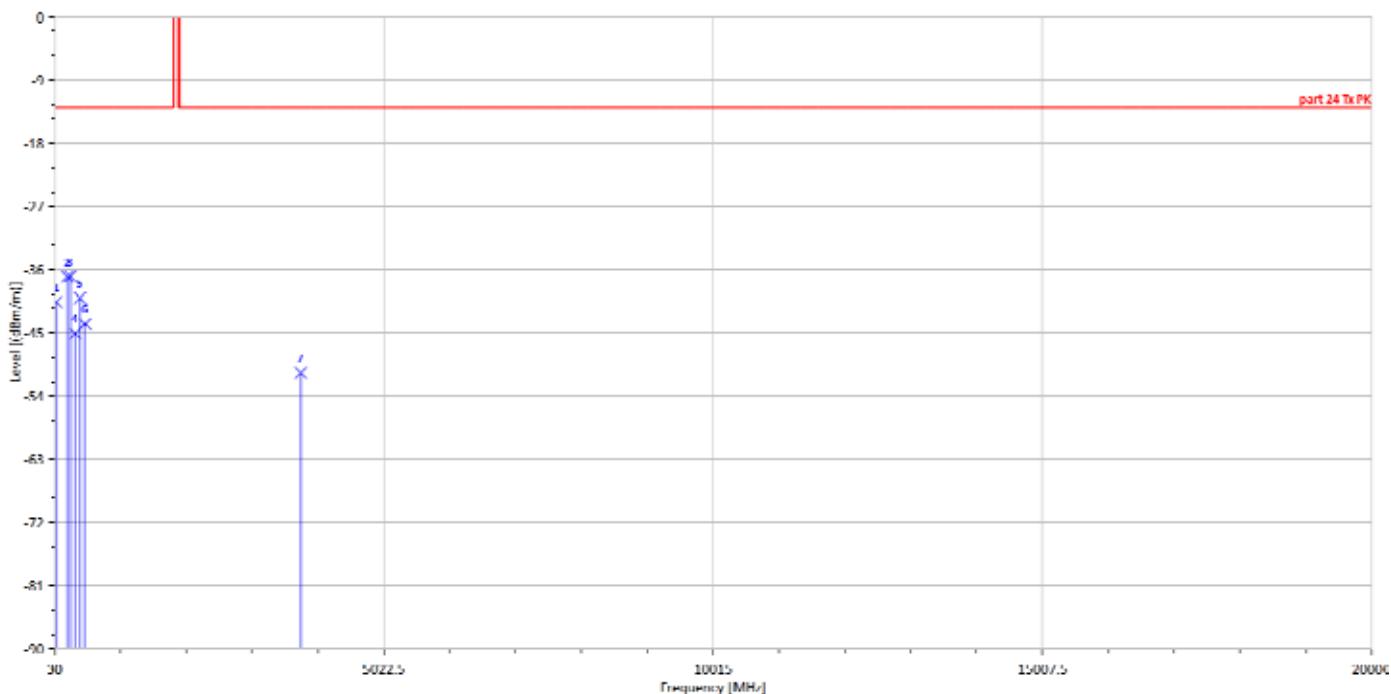
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Operation Mode : GPRS_1900
 Fundamental Frequency : 1880.0 MHz
 Operation Band : Tx CH Mid
 EUT Pol. : E2

Test Date : 2016/2/25
 Temp. / Humi. : 24.1deg_C/67RH
 Test Engineer : Pony
 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
60.07	S	-40.59	-36.64	-3.07	-0.89	-13.01	-27.58
227.88	S	-37.08	-39.46	4.16	-1.78	-13.01	-24.07
275.41	S	-37.05	-38.58	3.46	-1.92	-13.01	-24.04
348.16	S	-45.13	-46.72	3.74	-2.15	-13.01	-32.12
419.94	S	-40.04	-41.55	3.81	-2.30	-13.01	-27.03
491.72	S	-43.71	-45.26	4.22	-2.67	-13.01	-30.70
3760.00	H	-50.77	-55.87	12.30	-7.21	-13.01	-37.76

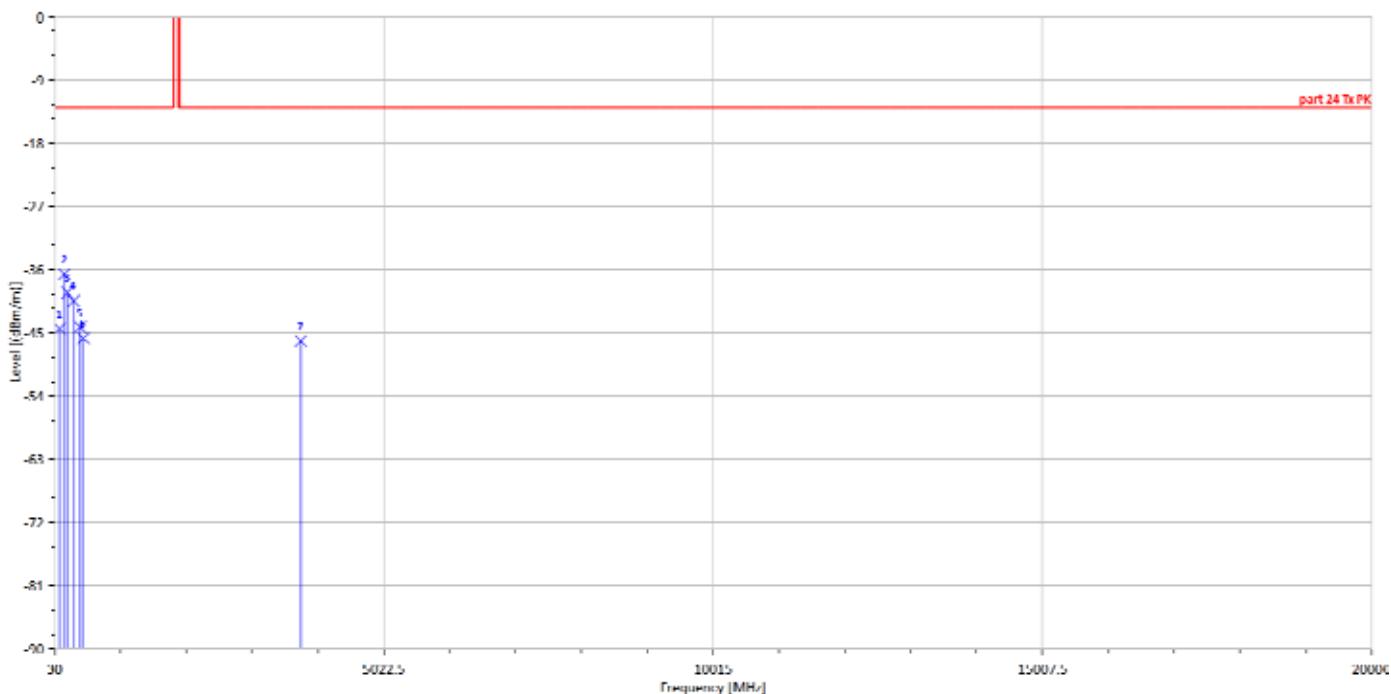
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Operation Mode : GPRS_1900
 Fundamental Frequency : 1880.0 MHz
 Operation Band : Tx CH Mid
 EUT Pol. : E2

Test Date : 2016/2/25
 Temp. / Humi. : 24.1deg_C/67RH
 Test Engineer : Pony
 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
107.60	S	-44.42	-39.88	-3.32	-1.21	-13.01	-31.41
179.38	S	-36.71	-38.70	3.50	-1.52	-13.01	-23.70
227.88	S	-39.30	-41.68	4.16	-1.78	-13.01	-26.29
323.91	S	-40.45	-42.07	3.77	-2.15	-13.01	-27.44
419.94	S	-44.18	-45.68	3.81	-2.30	-13.01	-31.17
467.47	S	-45.80	-47.36	4.16	-2.60	-13.01	-32.79
3760.00	H	-46.18	-51.27	12.30	-7.21	-13.01	-33.17

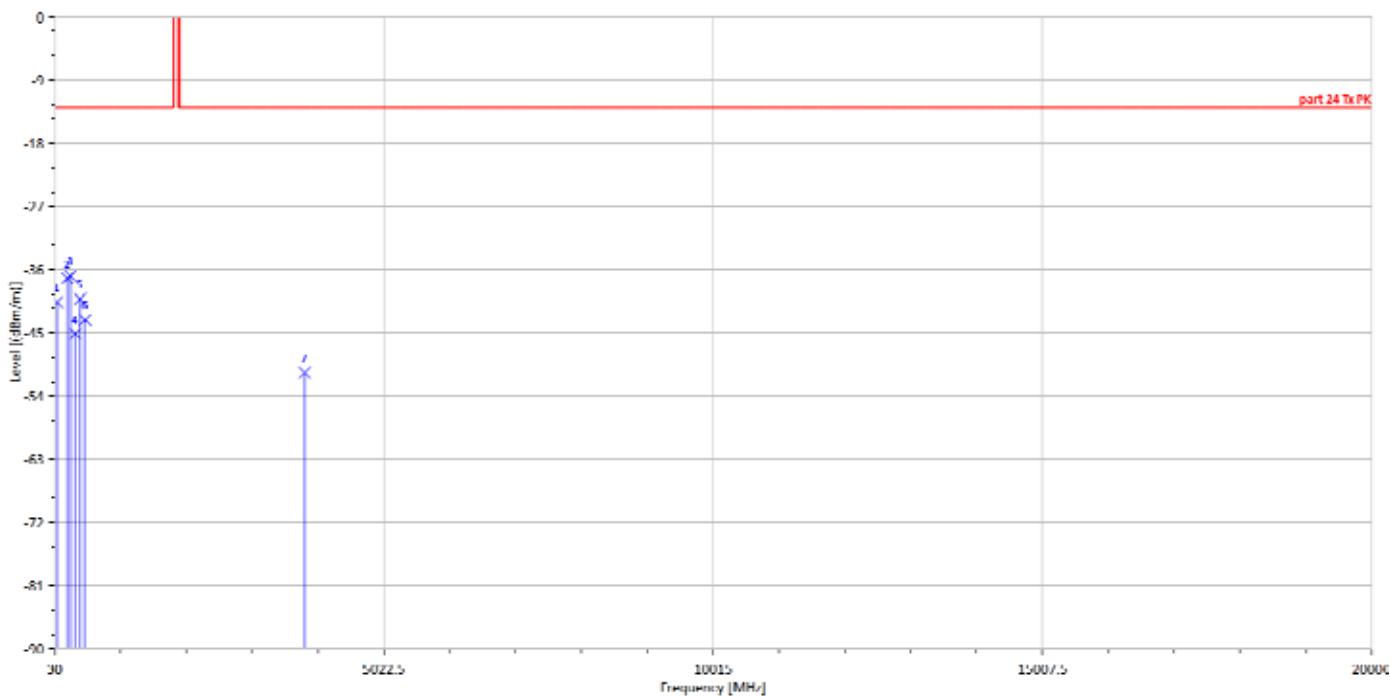
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Operation Mode : GPRS_1900
Fundamental Frequency : 1909.8 MHz
Operation Band : Tx CH High
EUT Pol. : E2

Test Date : 2016/2/25
Temp. / Humi. : 24.1deg_C/67RH
Test Engineer : Pony
Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm				
71.71	S	-40.60	-37.88	-1.69	-1.03	-13.01	-27.59
227.88	S	-37.29	-39.67	4.16	-1.78	-13.01	-24.28
275.41	S	-36.97	-38.51	3.46	-1.92	-13.01	-23.96
348.16	S	-45.14	-46.74	3.74	-2.15	-13.01	-32.13
419.94	S	-40.20	-41.71	3.81	-2.30	-13.01	-27.19
491.72	S	-43.14	-44.69	4.22	-2.67	-13.01	-30.13
3819.60	H	-50.76	-55.79	12.30	-7.27	-13.01	-37.75

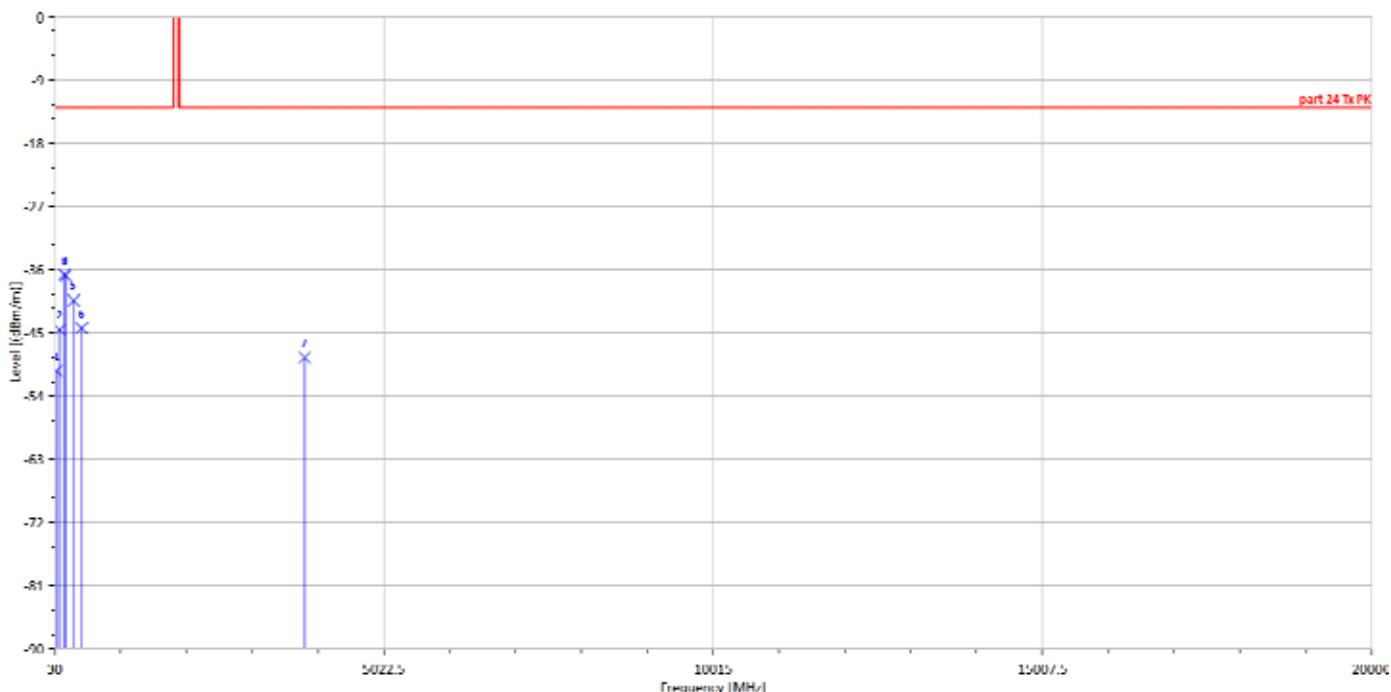
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Operation Mode : GPRS_1900
 Fundamental Frequency : 1909.8 MHz
 Operation Band : Tx CH High
 EUT Pol. : E2

Test Date : 2016/2/25
 Temp. / Humi. : 24.1deg_C/67RH
 Test Engineer : Pony
 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm		Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
			Output Level dBm	SG Output Level dBm				
63.95	S	-50.49	-47.01	-47.01	-2.55	-0.93	-13.01	-37.48
107.60	S	-44.56	-40.02	-40.02	-3.32	-1.21	-13.01	-31.55
179.38	S	-36.76	-38.75	-38.75	3.50	-1.52	-13.01	-23.75
203.63	S	-36.92	-39.01	-39.01	3.76	-1.67	-13.01	-23.91
323.91	S	-40.38	-42.01	-42.01	3.77	-2.15	-13.01	-27.37
444.19	S	-44.34	-46.00	-46.00	4.06	-2.40	-13.01	-31.33
3819.60	H	-48.57	-53.60	-53.60	12.30	-7.27	-13.01	-35.56

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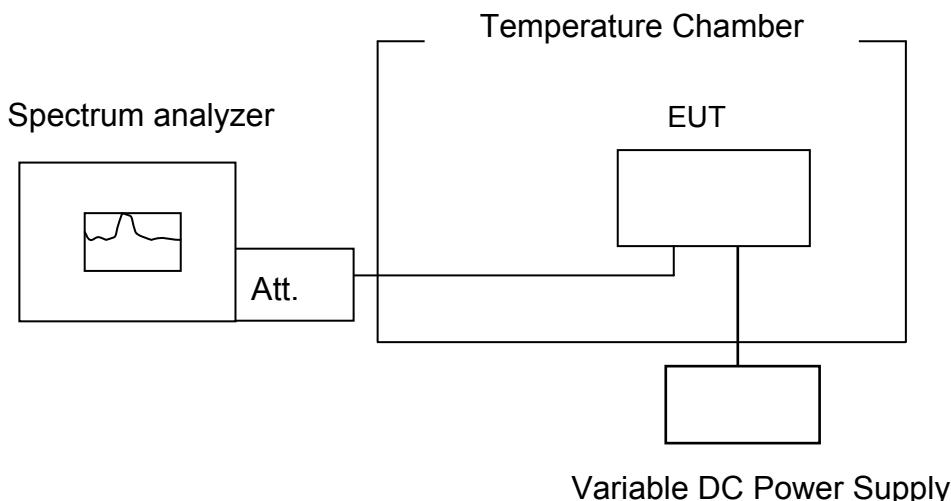
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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable:

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

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
13.8	20	836.600006	1	2091
12.0	20	836.600005	0	2091
10.2	20	836.600004	-1	2091
7.0 (End point)	20	836.600003	-2	2091

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
12	50	836.599990	-15	2091
12	40	836.599991	-14	2091
12	30	836.600004	-1	2091
12	20	836.600005	0	2091
12	10	836.600006	1	2091
12	0	836.600008	3	2091
12	-10	836.600004	-1	2091
12	-20	836.599989	-16	2091
12	-30	836.599992	-13	2091

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
13.8	20	1880.000004	-2	4700
12.0	20	1880.000006	0	4700
10.2	20	1880.000004	-2	4700
7.0 (End point)	20	1879.999998	-8	4700

FREQUENCY ERROR vs. TEMPERATURE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
12	50	1880.000005	-1	4700
12	40	1880.000004	-2	4700
12	30	1880.000007	1	4700
12	20	1880.000006	0	4700
12	10	1879.999997	-9	4700
12	0	1879.999995	-11	4700
12	-10	1880.000003	-3	4700
12	-20	1879.999993	-13	4700
12	-30	1879.999994	-12	4700

Note: The external battery is rated 12Vdc. (The worst case)

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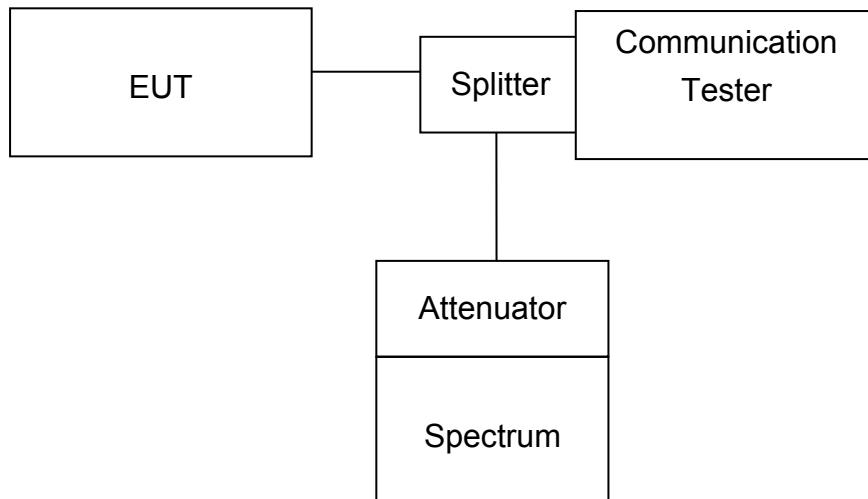
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

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

12.2. Test SET-UP



12.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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12.5. Measurement Result

Tabular Results:

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)
		GPRS
824.20	128	9.34
836.60	190	9.22
848.80	251	9.40

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)
		GPRS
1850.20	512	9.93
1880.00	661	9.91
1909.80	810	9.53

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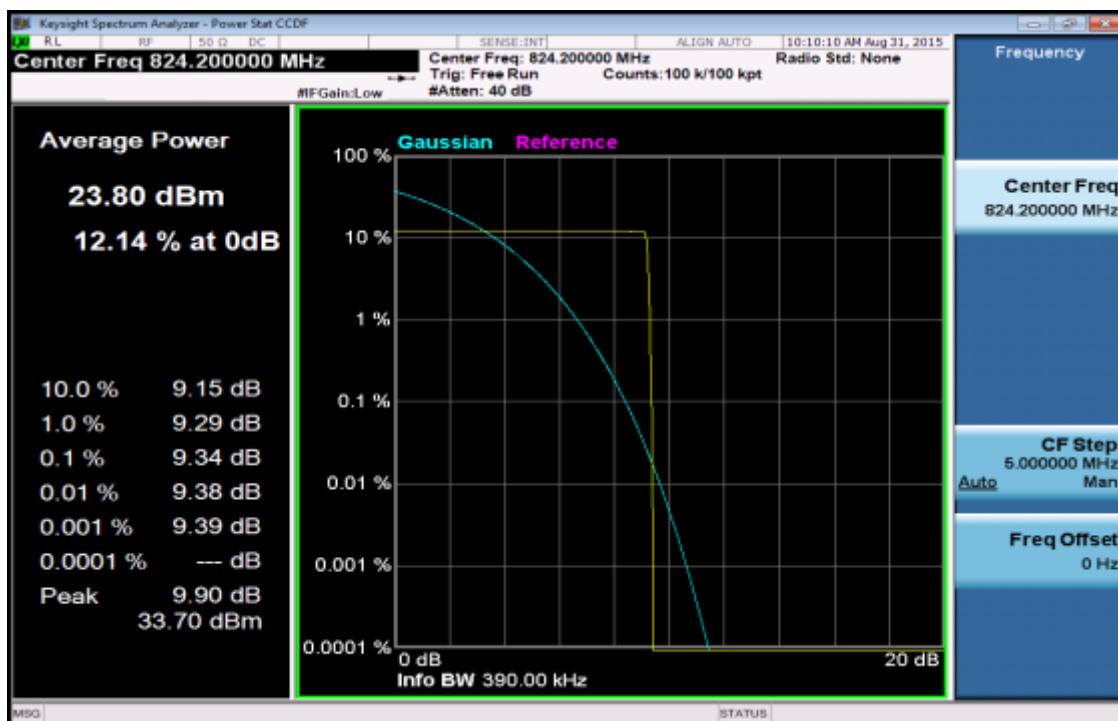
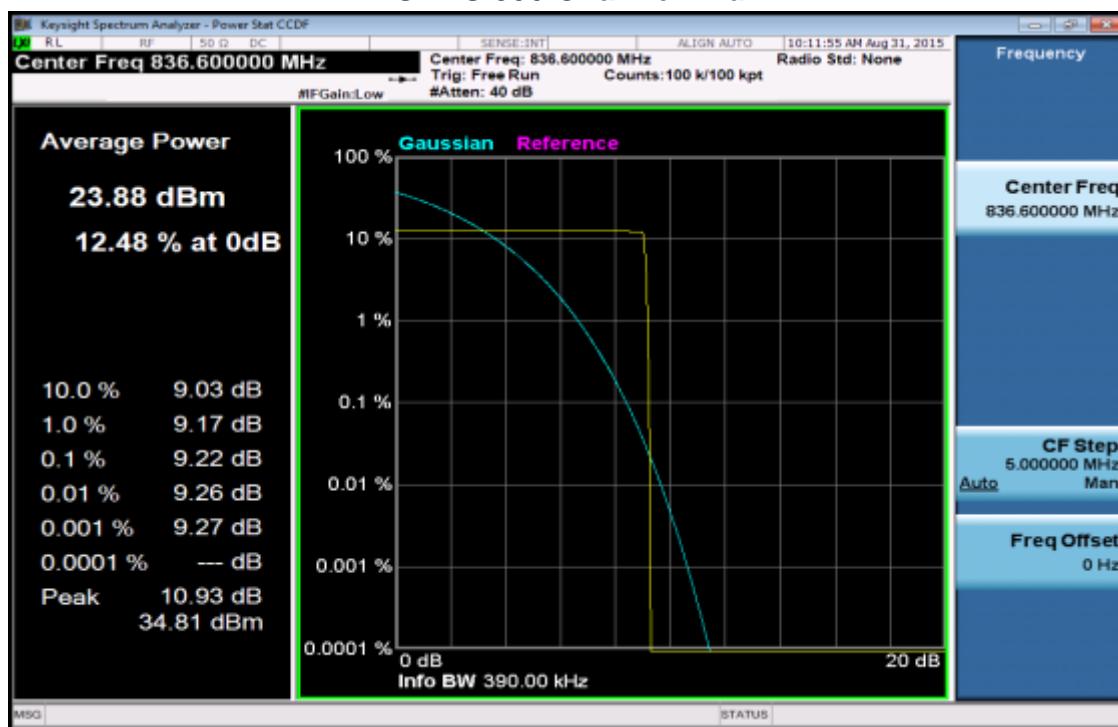
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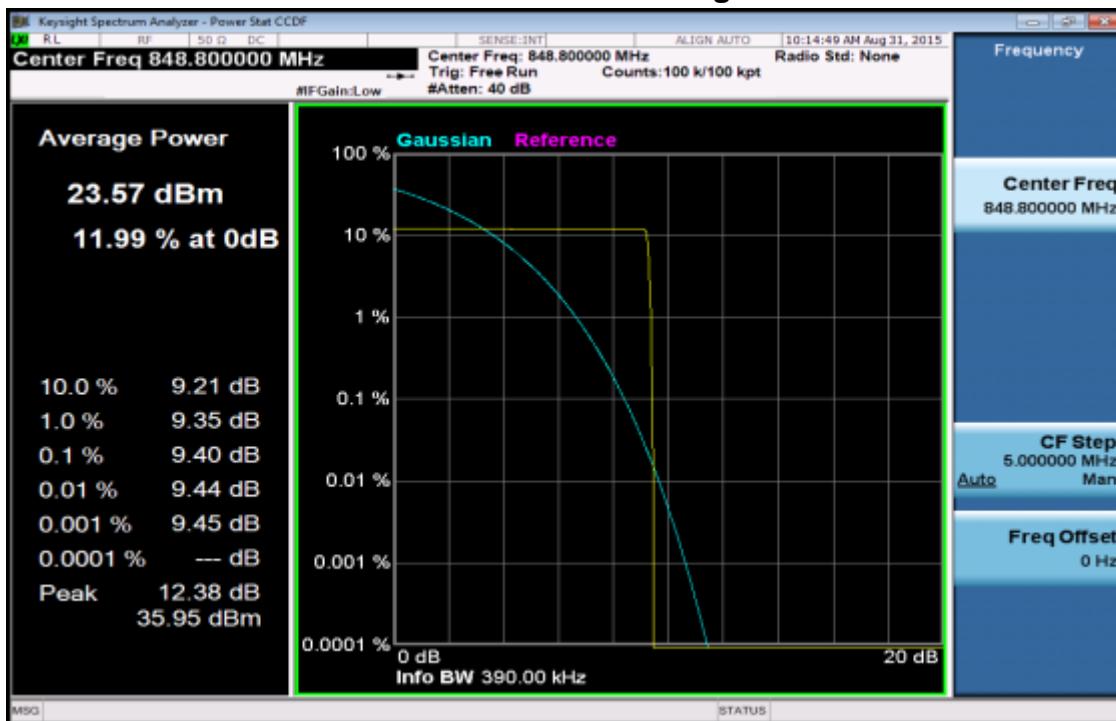
Measurement Results:
GPRS 850 Channel Low

GPRS 850 Channel Mid


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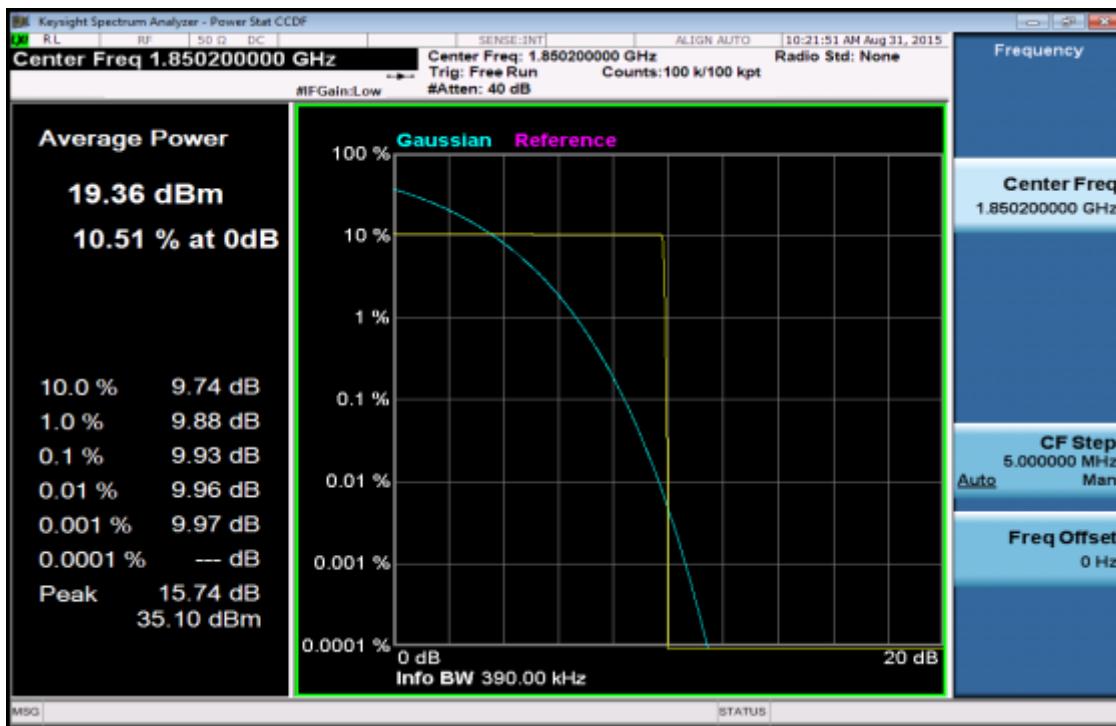
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GPRS 850 Channel High



GPRS 1900 Channel Low



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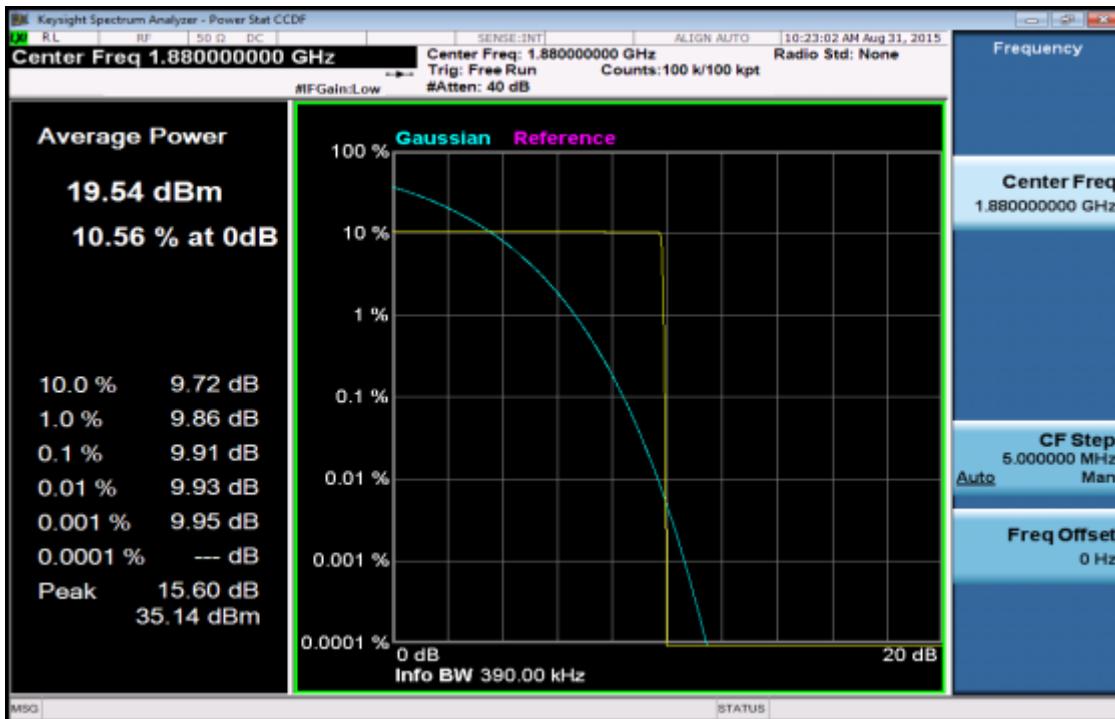
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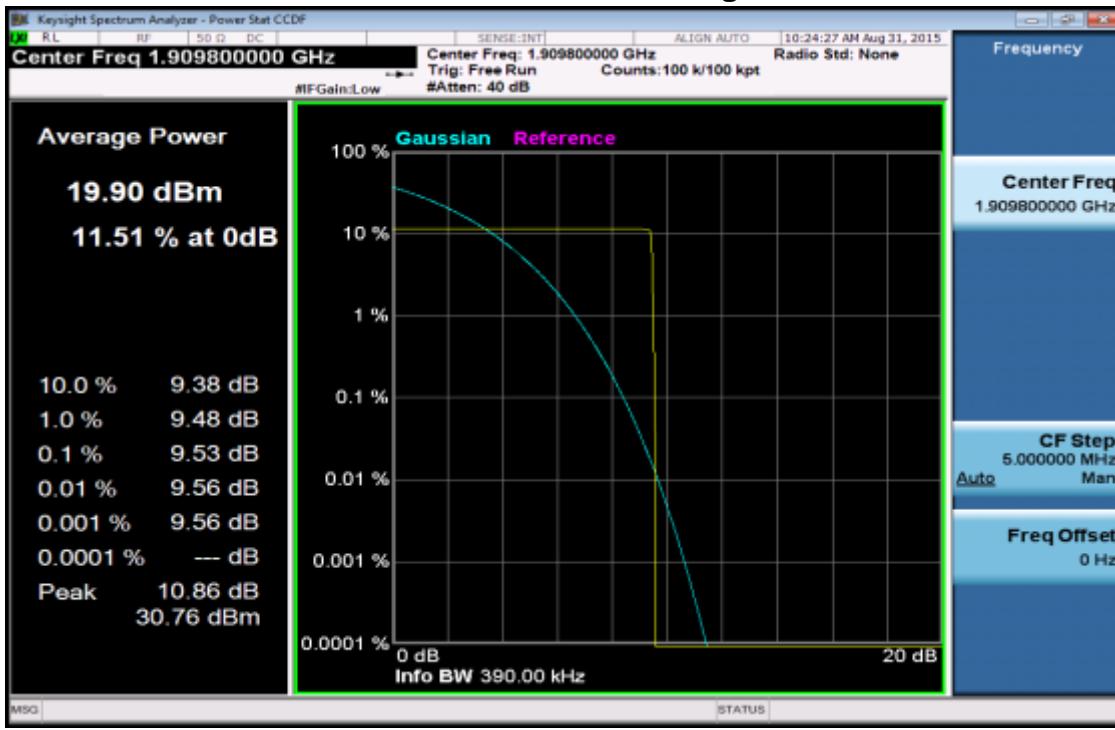
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GPRS 1900 Channel Mid



GPRS 1900 Channel High



~ End of Report ~

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