ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART C & SUBPART L and PART 90 S REQUIREMENT CLASS II PC REPORT

OF

Product Name:	**Vehicle Mount Computer**
Brand Name:	**Honeywell**
Marketing Name:	**Thor VM3**
Model No.:	**VM3WWANUS**
Model Difference:	**N/A**
FCC ID:	**HD5-VM3WWANA**
Report No.:	**ER/2015/20030-01**
Issue Date:	**Sep. 01, 2015**
FCC Rule Part:	**2 , 22H & 24E & 27C & L & 90S**
Prepared for:	**Honeywell International Inc., Honeywell Scanning and Mobility 9680 Old Bailes Road, Fort Mill, SC 29707, USA**
Prepared by:	**SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803**

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VERIFICATION OF COMPLIANCE

Applicant:	Honeywell International Inc., Honeywell Scanning and Mobility 9680 Old Bailes Road, Fort Mill, SC 29707, USA
Product Name:	Vehicle Mount Computer
Brand Name:	Honeywell
Marketing Name:	Thor VM3
Model No.:	VM3WWANUS
Model Difference:	N/A
FCC ID:	HD5-VM3WWANA
File Number:	ER/2015/20030-01
Date of test:	Feb. 04, 2015 ~ Aug. 31, 2015
Date of EUT Received:	Feb. 04, 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:	Marcus Tseng	***Date:***	Sep. 01, 2015
	Marcus Tseng / Engineer		
Prepared By:	Tiffany Kao	***Date:***	Sep. 01, 2015
	Tiffany Kao / Clerk		
Approved By:	Jim Chang	***Date:***	Sep. 01, 2015
	Jim Chang / Supervisor		

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Revision History

Report Number	Revision	Description	Issue Date
ER/2015/20030-01	Rev.00	Initial creation of document	Sep. 01, 2015

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Vehicle Mount Computer	
Brand Name:	Honeywell	
Marketing Name:	Thor VM3	
Model No.:	VM3WWANUS	
Model Difference:	N/A	
Product SW/HW version:	(a)Win7: 99.01.00.0002 (b)Win8: 99.01.00.0004 / ALXH48	
Radio SW/HW version:	SWI9x15C_05.05.16.02 / 1.0,1.1	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Scope:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval.	
Class II Permissive change:	Add two External WWAN Antennas: Diople Antenna: 1. Part No.: GSA.8841.A.105111 2. Part No.: TG.30.8111 Apex	
Power Supply:	7.3Vdc from Rechargeable Li-ion Battery or 15V from AC/DC Adapter	
	Battery:	Model No.: L3-52301624-R / OVT270L1R00 / 50121692-001, Supplier: TOTEX
	Adapter :	Model No.: GT-81081-6015-T3, Supplier: GlobTek, Inc.
IMEI:	359225050297850	

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GPRS / WCDMA/ CDMA:

	Operating Frequency		Rated Power
Cellular Phone Standards Frequency Range and Power	GPRS 850	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850	824.2 MHz– 848.8 MHz	27dBm
	GPRS 1900	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	CDMA/EVDO BC0	824.7 MHz– 848.31MHz	24 dBm
	CDMA/EVDO BC1	1851.25MHz-1908.75MHz	24 dBm
	CDMA/EVDO BC10	817.9 MHz – 823.1 MHz	24 dBm

LTE:

	Operating Frequency		Rated Power
Cellular Phone Standards Frequency Range and Power	LTE-Band 2 (Bandwidth 1.4MHz)	1850.7MHz– 1909.3MHz	23dBm
	LTE-Band 2 (Bandwidth 3MHz)	1851.5MHz – 1908.5MHz	23dBm
	LTE-Band 2 (Bandwidth 5MHz)	1852.5MHz – 1907.5MHz	23dBm
	LTE-Band 2 (Bandwidth 10MHz)	1855.0MHz – 1905.0MHz	23dBm
	LTE-Band 2 (Bandwidth 15MHz)	1857.5MHz – 1902.5MHz	23dBm
	LTE-Band 2 (Bandwidth 20MHz)	1860.0MHz – 1900.0MHz	23dBm
	LTE-Band 4 (Bandwidth 1.4MHz)	1710.7MHz– 1754.3MHz	23dBm
	LTE-Band 4 (Bandwidth 3MHz)	1711.5MHz – 1753.5MHz	23dBm
	LTE-Band 4 (Bandwidth 5MHz)	1712.5MHz – 1752.5MHz	23dBm
	LTE-Band 4 (Bandwidth 10MHz)	1715.0MHz – 1750.0MHz	23dBm
	LTE-Band 4 (Bandwidth 15MHz)	1717.5MHz – 1747.5MHz	23dBm
	LTE-Band 4 (Bandwidth 20MHz)	1720.0MHz – 1745.0MHz	23dBm

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	Operating Frequency		Rated Power
Cellular Phone Standards Frequency Range and Power	LTE-Band 5 (Bandwidth 1.4MHz)	824.7MHz – 848.3MHz	23dBm
	LTE-Band 5 (Bandwidth 3MHz)	825.5MHz – 848.3MHz	23dBm
	LTE-Band 5 (Bandwidth 5MHz)	826.5MHz – 846.5MHz	23dBm
	LTE-Band 5 (Bandwidth 10MHz)	829.0MHz – 844.0MHz	23dBm
	LTE-Band 13 (Bandwidth 5MHz)	779.5MHz – 784.5MHz	23 dBm
	LTE-Band 13 (Bandwidth 10MHz)	782.0MHz – 782.0MHz	23 dBm
	LTE-Band 17 (Bandwidth 5MHz)	706.5MHz – 713.5MHz	23dBm
	LTE-Band 17 (Bandwidth 10MHz)	709.0MHz –711.0MHz	23dBm
	LTE-Band 25 (Bandwidth 1.4MHz)	1850.7MHz– 1914.3MHz	23dBm
	LTE-Band 25 (Bandwidth 3MHz)	1851.5MHz – 1913.5MHz	23dBm
	LTE-Band 25 (Bandwidth 5MHz)	1852.5MHz – 1912.5MHz	23dBm
	LTE-Band 25 (Bandwidth 10MHz)	1855.0MHz – 1910.0MHz	23dBm
	LTE-Band 25 (Bandwidth 15MHz)	1857.5MHz – 1907.5MHz	23dBm
	LTE-Band 25 (Bandwidth 20MHz)	1860.0MHz – 1905.0MHz	23dBm

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Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	25.95	ERP	0.394
EDGE 850 Band	23.61	ERP	0.230
GPRS 1900 Band	27.28	EIRP	0.535
EDGE 1900 Band	26.80	EIRP	0.479
WCDMA Band II	26.12	EIRP	0.409
HSDPA Band II	27.32	EIRP	0.540
HSUPA Band II	27.01	EIRP	0.502
WCDMA Band IV	26.29	EIRP	0.426
HSDPA Band IV	28.99	EIRP	0.793
HSUPA Band IV	27.93	EIRP	0.621
WCDMA Band V	20.49	ERP	0.112
HSDPA Band V	21.87	ERP	0.154
HSUPA Band V	21.19	ERP	0.132
CDMA 2000 BC0	21.54	ERP	0.143
EVDO 2000 BC0	20.92	ERP	0.124
CDMA 2000 BC1	21.27	EIRP	0.134
EVDO 2000 BC1	18.46	EIRP	0.070
CDMA 2000 BC10	21.37	ERP	0.137
EVDO 2000 BC10	20.97	ERP	0.125
LTE Band 2/1.4MMz /QPSK RB 1 Offset 0	29.29	EIRP	0.849
LTE Band 2/1.4MMz /16QAM RB 1 Offset 0	29.38	EIRP	0.867
LTE Band 2/3MMz /QPSK RB 1 Offset 14	28.94	EIRP	0.783
LTE Band 2/3MMz /16QAM RB 1 Offset 14	29.11	EIRP	0.815
LTE Band 2/5MMz /QPSK RB 1 Offset 0	29.29	EIRP	0.849
LTE Band 2/5MMz /16QAM RB 1 Offset 0	29.04	EIRP	0.802
LTE Band 2/10MMz /QPSK RB 1 Offset 49	28.54	EIRP	0.714
LTE Band 2/10MMz /16QAM RB 1 Offset 0	29.26	EIRP	0.843
LTE Band 2/15MMz /QPSK RB 1 Offset 0	29.24	EIRP	0.839
LTE Band 2/15MMz /16QAM RB 1 Offset 74	29.14	EIRP	0.820
LTE Band 2/20MMz /QPSK RB 1 Offset 0	28.97	EIRP	0.789
LTE Band 2/20MMz /16QAM RB 1 Offset 0	28.76	EIRP	0.752

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LTE Band 4/1.4MMz /QPSK RB 1 Offset 0	29.08	EIRP	0.809
LTE Band 4/1.4MMz /16QAM RB 1 Offset 0	29.13	EIRP	0.818
LTE Band 4/3MMz /QPSK RB 1 Offset 14	29.22	EIRP	0.836
LTE Band 4/3MMz /16QAM RB 1 Offset 0	29.47	EIRP	0.885
LTE Band 4/5MMz /QPSK RB 1 Offset 0	29.10	EIRP	0.813
LTE Band 4/5MMz /16QAM RB 1 Offset 0	28.81	EIRP	0.760
LTE Band 4/10MMz /QPSK RB 1 Offset 49	28.87	EIRP	0.771
LTE Band 4/10MMz /16QAM RB 1 Offset 49	29.38	EIRP	0.867
LTE Band 4/15MMz /QPSK RB 1 Offset 74	29.06	EIRP	0.805
LTE Band 4/15MMz /16QAM RB 1 Offset 74	29.49	EIRP	0.889
LTE Band 4/20MMz /QPSK RB 1 Offset 99	29.06	EIRP	0.805
LTE Band 4/20MMz /16QAM RB 1 Offset 0	29.31	EIRP	0.853
LTE Band 5/1.4MMz /QPSK RB 1 Offset 0	21.81	ERP	0.152
LTE Band 5/1.4MMz /16QAM RB 1 Offset 0	22.37	ERP	0.173
LTE Band 5/3MMz /QPSK RB 1 Offset 0	22.23	ERP	0.167
LTE Band 5/3MMz /16QAM RB 1 Offset 14	22.12	ERP	0.163
LTE Band 5/5MMz /QPSK RB 1 Offset 24	22.32	ERP	0.171
LTE Band 5/5MMz /16QAM RB 1 Offset 0	22.14	ERP	0.164
LTE Band 5/10MMz /QPSK RB 1 Offset 0	22.34	ERP	0.171
LTE Band 5/10MMz /16QAM RB 1 Offset 0	22.15	ERP	0.164
LTE Band 13/5MMz /QPSK RB 1 Offset 0	23.18	ERP	0.208
LTE Band 13/5MMz /16QAM RB 1 Offset 0	23.64	ERP	0.231
LTE Band 13/10MMz /QPSK RB 1 Offset 0	23.24	ERP	0.211
LTE Band 13/10MMz /16QAM RB 1 Offset 0	23.71	ERP	0.235
LTE Band 17/5MMz /QPSK RB 1 Offset 24	20.95	ERP	0.124
LTE Band 17/5MMz /16QAM RB 1 Offset 0	22.29	ERP	0.169
LTE Band 17/10MMz /QPSK RB 1 Offset 0	20.95	ERP	0.124
LTE Band 17/10MMz /16QAM RB 1 Offset 0	22.20	ERP	0.166
LTE Band 25/1.4MMz /QPSK RB 1 Offset 5	29.33	EIRP	0.857
LTE Band 25/1.4MMz /16QAM RB 1 Offset 5	30.24	EIRP	1.057
LTE Band 25/3MMz /QPSK RB 1 Offset 0	29.17	EIRP	0.826
LTE Band 25/3MMz /16QAM RB 1 Offset 0	29.92	EIRP	0.982
LTE Band 25/5MMz /QPSK RB 1 Offset 0	29.35	EIRP	0.861
LTE Band 25/5MMz /16QAM RB 1 Offset 0	30.00	EIRP	1.000
LTE Band 25/10MMz /QPSK RB 1 Offset 0	29.30	EIRP	0.851
LTE Band 25/10MMz /16QAM RB 1 Offset 0	29.78	EIRP	0.951
LTE Band 25/15MMz /QPSK RB 1 Offset 74	25.97	EIRP	0.395
LTE Band 25/15MMz /16QAM RB 1 Offset 0	28.05	EIRP	0.638
LTE Band 25/20MMz /QPSK RB 1 Offset 0	29.13	EIRP	0.818
LTE Band 25/20MMz /16QAM RB 1 Offset 0	29.64	EIRP	0.920

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Vehicle Mount Computer supporting, GSM / WCDMA / CDMA / LTE,
Wi-Fi 802.11abgn, Bluetooth with GPS features, and below is details of information.

Product Feature	
Product Name:	Vehicle Mount Computer
Brand Name:	Honeywell
Marketing Name:	Thor VM3
Model No.:	VM3WWANUS
Model Difference:	N/A
FCC ID	HD5-VM3WWANA
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 10 / Class 12
CDMA / EVDO	BC0 / BC1 / BC10
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.8
LTE Operating Band(s)	FCC Band 2 / 4 / 5 / 13 / 17 / 25
LTE Rel. Version	Rel.9
Wi-Fi Specification	802.11a/b/g/n
Bluetooth Version	V4.1 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, 27, Part 90S.

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.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-4..

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 a placed on as 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) =14.8(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =15.2(dB)

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2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	15V	283
GSM 1900	15V	212
EDGE 850	15V	229
EDGE 1900	15V	253
WCDMA B2	15V	549
WCDMA B4	15V	481
WCDMA B5	15V	451
CDMA BC0	15V	797
CDMA BC1	15V	560
CDMA BC10	15V	394
LTE Band 2	15V	875
LTE Band 4	15V	836
LTE Band 5	15V	845
LTE Band 13	15V	839
LTE Band 17	15V	825
LTE Band 25	15V	841

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2.6. Configuration of Tested System

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

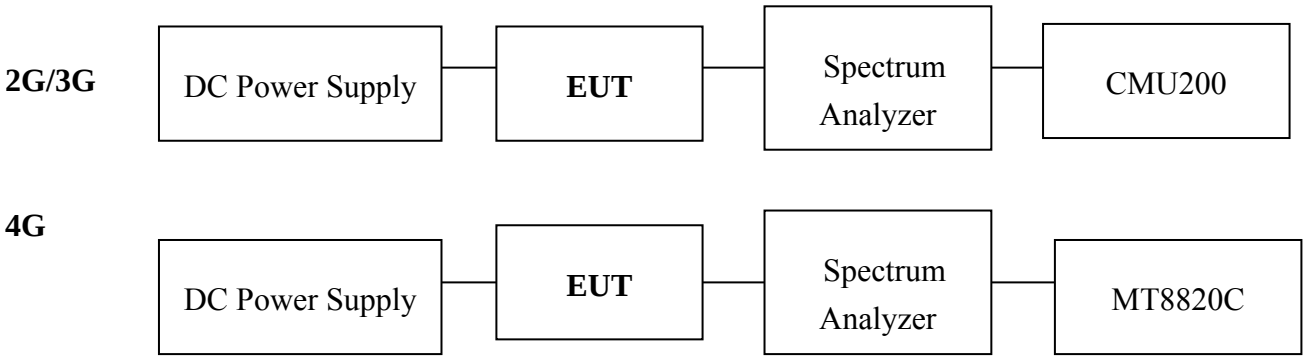


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

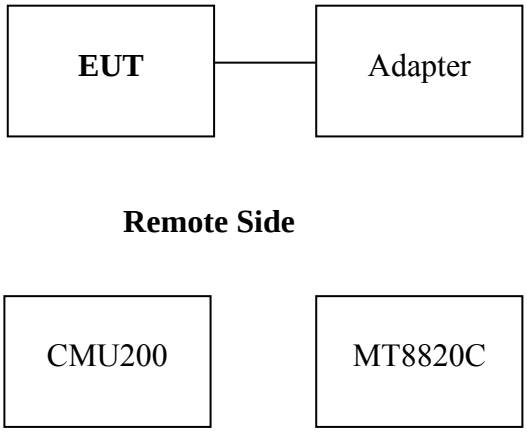


Table 2-1 Equipment Used in

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	6200307563	shielded	Un-shielded
3.	DC Power Supply	HP	E3640A	MY40005907	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) §27.50(h)(2) §90.635	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a) §27.50(c)(5) §27.53(g) §27.53(h) §27.53(f) §27.53(m)(4) §90.691(a)(1)(2)	Field Strength of Spurious Radiation	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. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	ERP/EIRP	RADIATED EMISSION
GPRS/EDGE 850	H-plan	H-plan
GPRS/EDGE 1900	H-plan	H-plan
WCDMA/HSPA Band II	H-plan	H-plan
WCDMA/HSPA Band IV	H-plan	H-plan
WCDMA/HSPA Band V	H-plan	H-plan
CDMA / EVDO BC 0	H-plan	H-plan
CDMA / EVDO BC 1	H-plan	H-plan
CDMA / EVDO BC 10	H-plan	H-plan
LTE Band 2 / 4 / 5/ 13 /17 /25	H-plan	H-plan

GSM/GPRS/EDGE MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	128 to 251	128, 190, 251	GPRS/EDGE 850
EIRP	512 to 810	512, 661, 810	GPRS/EDGE 1900
RADIATED EMISSION	128 to 251 512 to 810	128, 251 512, 810	GPRS 850 GPRS 1900

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 1312 to 1513	9262, 9400, 9583 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	HSDPA Band II HSDPA Band IV HSDPA Band V

CDMA/EVDO MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	1013 to 777 476 to 684	1013, 384, 777 476, 580, 684	CDMA/EVDO BC0 CDMA/EVDO BC10
EIRP	25 to 1175	25, 600, 1175	CDMA/EVDO BC1
RADIATED EMISSION	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA BC0 CDMA BC1 CDMA BC10

LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
RADIATED EMISSION Antenna Model NO.: GSA.8841.A.305111	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB/ 0 RB Offset
RADIATED EMISSION Antenna Model NO.: TG.30.8111 Apex	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB/ 5 RB Offset

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
RADIATED EMISSION Antenna Model NO.: GSA.8841.A.305111	20025 to 20325	20025, 20175, 20325	15MHz	16QAM,	1 RB/ 74 RB Offset
RADIATED EMISSION Antenna Model NO.: TG.30.8111 Apex	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	1 RB/ 0 RB Offset

LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
RADIATED EMISSION Antenna Model NO.: GSA.8841.A.305111	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM,	1 RB/ 0 RB Offset
RADIATED EMISSION Antenna Model NO.: TG.30.8111 Apex	20415 to 20635	20415, 20525, 20635	3MHz	16QAM,	1 RB/ 0 RB Offset

LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
RADIATED EMISSION Antenna Model NO.: GSA.8841.A.305111	23230	23230	10MHz	16QAM,	1 RB/ 0 RB Offset
RADIATED EMISSION Antenna Model NO.: TG.30.8111 Apex	23230	23230	10MHz	16QAM,	1 RB/ 0 RB Offset

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LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
RADIATED EMISSION Antenna Model NO.: GSA.8841.A.305111	23755 to 23825	23755, 23790, 23825	5MHz	16QAM,	1 RB/ 0 RB Offset
RADIATED EMISSION Antenna Model NO.: TG.30.8111 Apex	23755 to 23825	23755, 23790, 23825	5MHz	16QAM,	1 RB/ 24 RB Offset

LTE Band 25 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
RADIATED EMISSION Antenna Model NO.: GSA.8841.A.305111	27047 to 26683	27047, 26365, 26683	1.4MHz	16QAM,	1 RB/ 5 RB Offset
RADIATED EMISSION Antenna Model NO.: TG.30.8111 Apex	26065 to 26665	26065, 26365, 26665	5MHz	16QAM,	1 RB/ 0 RB Offset

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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**)	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**)	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.

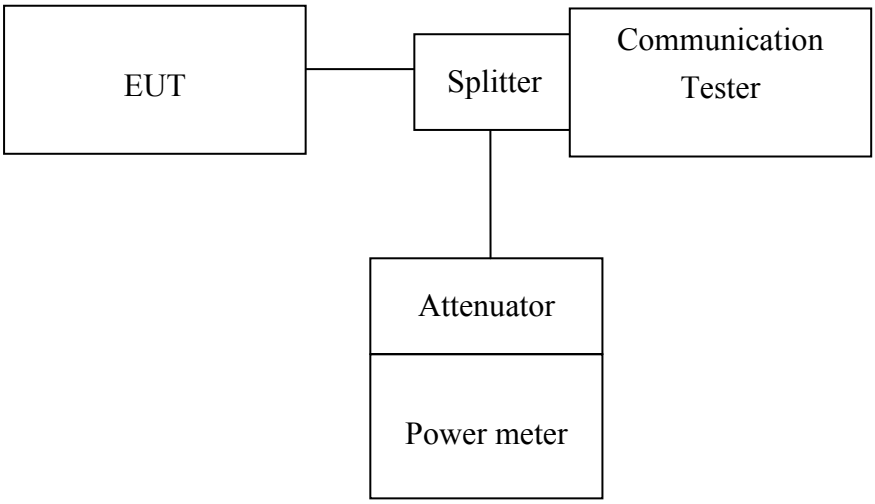
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

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 (measured at antenna port) Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Power Meter	Anritsu	ML2495A	1005007	12/20/2014	12/19/2015
Power Sensor	Anritsu	MA2411B	917032	12/20/2014	12/19/2015
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

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6.5. Measurement Result

RF Conducted Output Power

GPRS/EDGE (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	**32.90**	32.50	32.80	32.40
	836.6	190	32.80	32.40	32.70	32.30
	848.8	251	32.60	32.30	32.50	32.20
GPRS 1900	1850.2	512	**30.20**	29.90	30.10	29.80
	1880.0	661	30.20	30.00	30.20	29.90
	1909.8	810	30.10	30.00	30.10	30.00

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)	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
EDGE 850	824.2	128	**30.00**	26.80	29.90	26.70	29.70	26.60	29.50	26.40
	836.6	190	30.00	26.90	29.90	26.70	29.70	26.60	29.60	26.50
	848.8	251	29.90	26.80	29.90	26.80	29.70	26.60	29.60	26.50
EDGE 1900	1850.2	512	28.60	25.50	28.60	25.40	28.40	25.20	28.40	25.10
	1880.0	661	**28.80**	25.60	28.70	25.60	28.60	25.40	28.50	25.30
	1909.8	810	28.80	25.70	28.80	25.70	28.60	25.50	28.60	25.40

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CDMA2000/EVDO Result:

EUT Mode	Frequency (MHz)	CH	CDMA	EVDO
			Avg. Power (dBm)	Avg. Power (dBm)
BC0	824.7	1013	24.42	24.22
	836.52	384	**24.51**	**24.30**
	848.31	777	24.42	24.28
BC1	1851.25	25	23.71	24.53
	1880	600	**23.99**	24.55
	1908.75	1175	23.98	**24.60**
BC10	817.9	476	24.53	24.15
	820.5	580	24.55	24.22
	823.1	684	**24.60**	**24.36**

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WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

EUT Mode		WCDMA Band II		HSDPA Band II		HSUPA Band II	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1852.4	9262	27.12	23.61	26.91	22.98	26.40	22.40
1880.0	9400	**27.18**	23.64	26.74	23.08	26.17	22.42
1907.6	9538	27.13	23.74	26.81	23.15	26.25	22.41

EUT Mode		WCDMA Band IV		HSDPA Band IV		HSUPA Band IV	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1712.4	1312	**27.44**	23.86	27.22	23.33	26.63	22.69
1732.6	1412	26.92	23.73	26.95	23.27	26.40	22.57
1752.6	1513	27.39	23.84	27.36	23.46	26.73	22.83

EUT Mode		WCDMA Band V		HSDPA Band V		HSUPA Band V	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
826.4	4132	26.88	23.53	26.44	22.85	26.04	22.26
836.6	4183	26.88	23.51	26.61	22.88	26.13	22.28
846.6	4233	**26.89**	23.50	26.70	22.92	26.23	22.33

Note: The results above reflect max power with all up bits.

Cable loss offset: Low Band: 14.8dB, High Band: 15.2dB

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LTE Result:

LTE Band 2

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18607	Channel (Mid) 18900	Channel (High) 19193	Channel (Low) 18607	Channel (Mid) 18900	Channel (High) 19193
1.4	1	0	23.60	23.33	23.62	22.57	22.61	22.63
	1	5	23.74	23.69	23.74	22.52	22.64	22.72
	3	2	23.43	23.71	**23.79**	22.61	22.70	22.81
	6	0	22.63	22.75	22.85	21.54	21.61	21.79

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185	Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185
3	1	0	23.65	23.72	23.74	22.53	22.70	22.61
	1	14	23.66	23.65	**23.79**	22.63	22.59	22.72
	8	4	22.65	22.63	22.73	21.54	21.60	21.69
	15	0	22.55	22.65	22.63	21.56	21.55	21.58

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175	Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175
5	1	0	23.46	23.49	23.31	22.27	22.46	22.37
	1	24	23.44	23.34	**23.74**	22.21	22.33	22.48
	12	6	22.36	22.40	22.53	21.52	21.41	21.49
	25	0	22.25	22.28	22.36	21.22	21.26	21.28

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LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150	Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150
10	1	0	23.45	23.44	23.42	22.40	22.43	22.38
	1	49	23.45	23.27	**23.62**	22.34	22.29	22.56
	25	12	22.13	22.35	22.21	21.11	21.23	21.26
	50	0	21.98	22.05	22.03	21.00	21.03	21.12

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125	Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125
15	1	0	23.51	23.47	23.26	22.40	22.38	22.21
	1	74	23.39	23.29	**23.60**	22.28	22.42	22.57
	36	19	22.14	22.15	22.22	21.18	21.16	21.15
	75	0	22.11	21.91	22.17	21.11	21.04	21.08

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100	Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100
20	1	0	**23.50**	23.46	23.41	22.39	22.32	22.40
	1	99	23.33	23.42	23.44	22.18	22.13	22.41
	50	25	22.13	22.10	21.94	21.07	21.00	21.11
	100	0	22.10	22.21	22.17	21.10	21.10	21.07

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LTE Band 4

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393	Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393
1.4	1	0	**23.62**	23.62	23.50	22.52	22.49	22.24
	1	5	23.30	23.63	23.55	22.48	22.55	22.52
	3	2	23.40	23.53	23.54	22.42	22.60	22.44
	6	0	22.60	22.60	22.50	21.60	21.57	21.58

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385	Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385
3	1	0	23.56	23.50	23.46	22.32	22.54	22.62
	1	14	**23.73**	23.57	23.46	22.70	22.60	22.58
	8	4	22.62	22.58	22.39	21.64	21.55	21.48
	15	0	22.61	22.48	22.51	21.59	21.51	21.35

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375	Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375
5	1	0	23.68	23.60	23.33	22.48	22.56	22.59
	1	24	23.61	**23.76**	23.64	22.54	22.56	22.46
	12	6	22.64	22.44	22.55	21.70	21.70	21.54
	25	0	22.52	22.42	22.38	21.49	21.39	21.41

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350	Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350
10	1	0	23.61	**23.74**	23.60	22.60	22.48	22.60
	1	49	23.67	23.59	23.63	22.59	22.44	22.34
	25	12	22.42	22.37	22.35	21.36	21.39	21.38
	50	0	22.25	22.28	22.04	21.20	21.23	21.22

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325	Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325
15	1	0	23.65	**23.70**	23.63	22.67	22.53	22.58
	1	74	23.61	23.45	23.60	22.26	22.42	22.23
	36	19	22.41	22.40	22.27	21.37	21.37	21.33
	75	0	22.33	22.33	22.17	21.32	21.29	21.25

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300	Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300
20	1	0	23.42	23.63	23.62	22.70	22.73	22.68
	1	99	23.53	23.50	**23.77**	22.48	22.30	22.43
	50	25	22.32	22.37	22.26	21.37	21.29	21.28
	100	0	22.36	22.34	22.35	21.37	21.31	21.40

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LTE Band 5

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643	Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643
1.4	1	0	23.09	23.05	23.07	21.99	21.81	22.06
	1	5	23.15	23.22	23.01	22.17	22.27	21.87
	3	2	**23.17**	23.03	23.02	22.18	22.09	22.04
	6	0	22.17	22.18	22.12	21.24	21.18	21.15

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20415	Channel (Mid) 20525	Channel (High) 20635	Channel (Low) 20415	Channel (Mid) 20525	Channel (High) 20635
3	1	0	23.07	23.05	22.99	21.67	22.07	21.81
	1	14	23.19	**23.32**	22.95	22.17	21.98	21.75
	8	4	22.11	22.21	24.02	21.08	21.15	23.06
	15	0	22.12	22.18	24.16	21.08	21.18	23.45

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625	Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625
5	1	0	23.11	23.18	23.09	22.17	21.61	22.02
	1	24	22.95	**23.23**	23.01	22.14	21.89	21.85
	12	6	22.18	22.09	21.92	21.18	21.24	21.17
	25	0	22.03	22.06	22.00	20.94	21.10	20.95

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LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600	Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600
10	1	0	23.15	23.12	23.10	21.98	22.15	22.14
	1	49	23.15	**23.29**	23.01	22.14	22.19	22.06
	25	12	22.08	22.16	22.07	21.03	21.05	21.13
	50	0	21.94	22.04	21.95	20.89	20.98	21.03

LTE Band 13

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255	Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255
5	1	0	23.54	23.43	23.63	22.31	22.23	22.62
	1	24	23.59	**23.63**	23.47	22.54	22.38	22.44
	12	6	22.33	22.51	22.45	21.31	21.55	21.41
	25	0	22.25	22.47	22.43	21.18	21.39	21.36

LTE Band 13_Uplink frequency band : 777 to 787 MHz				
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)	
			QPSK	16QAM
			Channel 23230	Channel 23230
10	1	0	**23.76**	22.62
	1	49	23.72	22.65
	25	12	22.81	21.64
	50	0	22.54	21.66

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LTE Band 17

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23755	Channel (Mid) 20790	Channel (High) 20825	Channel (Low) 23755	Channel (Mid) 20790	Channel (High) 20825
5	1	0	23.47	**23.74**	23.74	21.94	22.74	22.50
	1	24	23.58	23.54	23.18	22.62	22.29	22.12
	12	6	22.39	22.66	22.37	21.45	21.68	21.41
	25	0	22.41	22.53	22.23	21.35	21.53	21.19

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800	Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800
10	1	0	23.42	23.39	**23.49**	21.74	22.26	22.06
	1	49	23.24	23.40	23.22	22.47	22.51	22.28
	25	12	22.60	22.57	22.46	21.51	21.46	21.49
	50	0	22.36	22.33	22.33	21.41	21.31	21.28

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LTE Band 25

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26047	Channel (Mid) 26365	Channel (High) 26683	Channel (Low) 26047	Channel (Mid) 26365	Channel (High) 26683
1.4	1	0	23.20	23.15	**23.58**	22.10	21.96	22.44
	1	5	23.29	23.32	23.52	22.18	22.27	22.43
	3	2	23.20	23.27	23.45	22.18	22.32	22.41
	6	0	22.19	22.27	22.42	21.20	21.32	21.50

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26055	Channel (Mid) 26365	Channel (High) 26675	Channel (Low) 26055	Channel (Mid) 26365	Channel (High) 26675
3	1	0	23.13	23.16	**23.39**	21.95	22.15	22.40
	1	14	23.10	23.23	23.32	21.89	22.14	22.39
	8	4	22.24	22.26	22.50	21.17	21.17	21.45
	15	0	22.13	22.28	22.45	21.13	21.25	21.45

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26065	Channel (Mid) 26365	Channel (High) 26665	Channel (Low) 26065	Channel (Mid) 26365	Channel (High) 26665
5	1	0	23.23	23.21	**23.50**	21.92	22.16	22.22
	1	24	23.17	23.29	23.49	22.07	22.17	22.41
	12	6	22.21	22.25	22.39	21.21	21.29	21.31
	25	0	22.00	21.96	22.22	21.04	21.11	21.21

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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26090	Channel (Mid) 26365	Channel (High) 226640	Channel (Low) 26090	Channel (Mid) 26365	Channel (High) 226640
10	1	0	23.17	23.34	23.47	22.01	22.13	22.34
	1	49	23.21	23.23	**23.56**	22.21	22.06	22.26
	25	12	22.03	22.18	22.29	21.03	21.09	21.21
	50	0	21.84	22.00	22.24	20.90	21.00	21.27

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26115	Channel (Mid) 26365	Channel (High) 26615	Channel (Low) 26115	Channel (Mid) 26365	Channel (High) 26615
15	1	0	23.19	23.20	23.29	22.26	22.30	22.22
	1	74	23.26	23.11	**23.50**	22.04	22.08	22.40
	36	19	21.93	22.05	22.17	20.99	21.05	21.20
	75	0	21.91	22.00	22.22	20.88	20.96	21.12

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26140	Channel (Mid) 26365	Channel (High) 26590	Channel (Low) 26140	Channel (Mid) 26365	Channel (High) 26590
20	1	0	23.22	23.30	23.22	22.28	22.30	22.32
	1	99	23.19	23.15	**23.41**	22.31	22.21	22.46
	50	25	21.92	21.93	22.01	20.96	21.00	21.04
	100	0	22.00	22.01	22.12	20.98	20.97	21.14

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HSDPA Release 8 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d ***(SF)***	β_c/β_d	β_{HS} (*Note1, Note 2*)	**CM (dB)** *(Note 3)*	**MPR (dB)** *(Note 3)*	**RMC (Kbps)**
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 *(Note 4)*	15/15 *(Note 4)*	64	12/15 *(Note 4)*	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	**23.83**	23.89	23.93	20.3dBm – 25.7dBm	**Pass**
	2	23.54	23.53	23.61	20.3dBm – 25.7dBm	**Pass**
	3	23.37	23.41	23.44	19.8dBm – 25.7dBm	**Pass**
	4	23.42	23.45	23.50	19.8dBm – 25.7dBm	**Pass**

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	24.08	23.98	24.03	20.3dBm – 25.7dBm	**Pass**
	2	23.79	23.62	23.71	20.3dBm – 25.7dBm	**Pass**
	3	23.62	23.50	23.54	19.8dBm – 25.7dBm	**Pass**
	4	23.67	23.54	23.60	19.8dBm – 25.7dBm	**Pass**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	23.75	23.76	23.69	20.3dBm – 25.7dBm	**Pass**
	2	23.46	23.40	23.37	20.3dBm – 25.7dBm	**Pass**
	3	23.29	23.28	23.20	19.8dBm – 25.7dBm	**Pass**
	4	23.34	23.32	23.26	19.8dBm – 25.7dBm	**Pass**

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HSPA (HSDPA & HSUPA) Release 8 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.57	23.57	23.65	18.8dBm – 25.7dBm	Pass
	2	21.63	21.65	21.69	16.8dBm – 25.7dBm	Pass
	3	22.54	22.63	22.68	17.8dBm – 25.7dBm	Pass
	4	21.68	21.71	21.77	16.8dBm – 25.7dBm	Pass
	5	23.43	23.40	23.54	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSUPA (B4)	1	23.82	23.66	23.75	18.8dBm – 25.7dBm	Pass
	2	21.88	21.74	21.79	16.8dBm – 25.7dBm	Pass
	3	22.79	22.72	22.78	17.8dBm – 25.7dBm	Pass
	4	21.93	21.80	21.87	16.8dBm – 25.7dBm	Pass
	5	23.68	23.49	23.64	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	23.49	23.44	23.41	18.8dBm – 25.7dBm	Pass
	2	21.55	21.52	21.45	16.8dBm – 25.7dBm	Pass
	3	22.46	22.50	22.44	17.8dBm – 25.7dBm	Pass
	4	21.60	21.58	21.53	16.8dBm – 25.7dBm	Pass
	5	23.35	23.27	23.30	18.8dBm – 25.7dBm	Pass

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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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.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W.

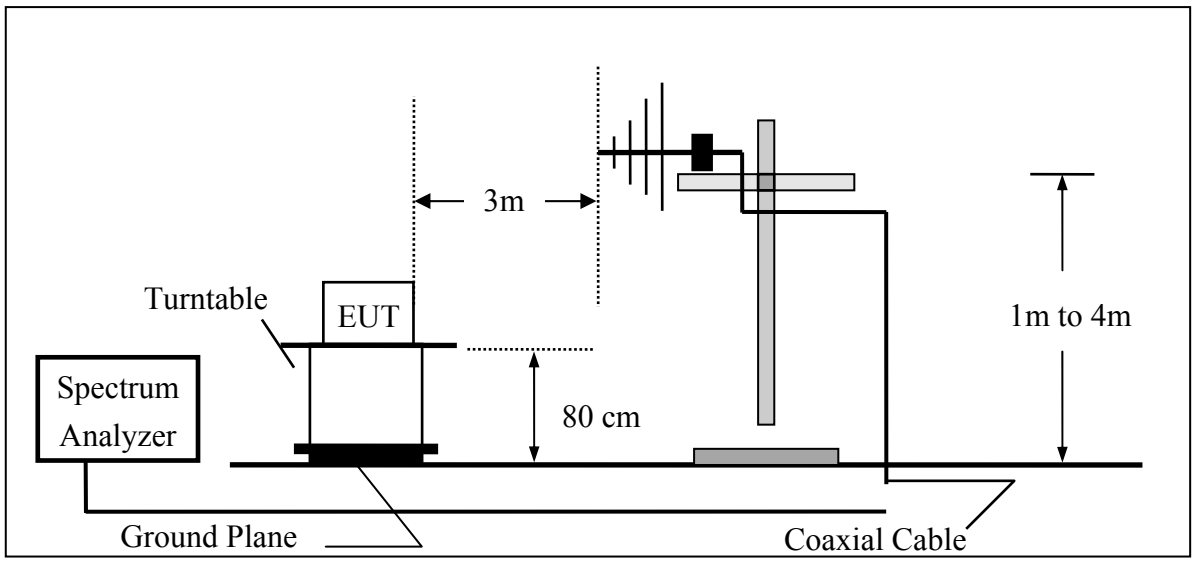
FCC 27, 50(d)(4) Portable stations are limited to 1W

Part 27, 50(d)(4) Portable stations are limited to 1W

Part 90 Subpart (R) Mobile stations are limited to 100W

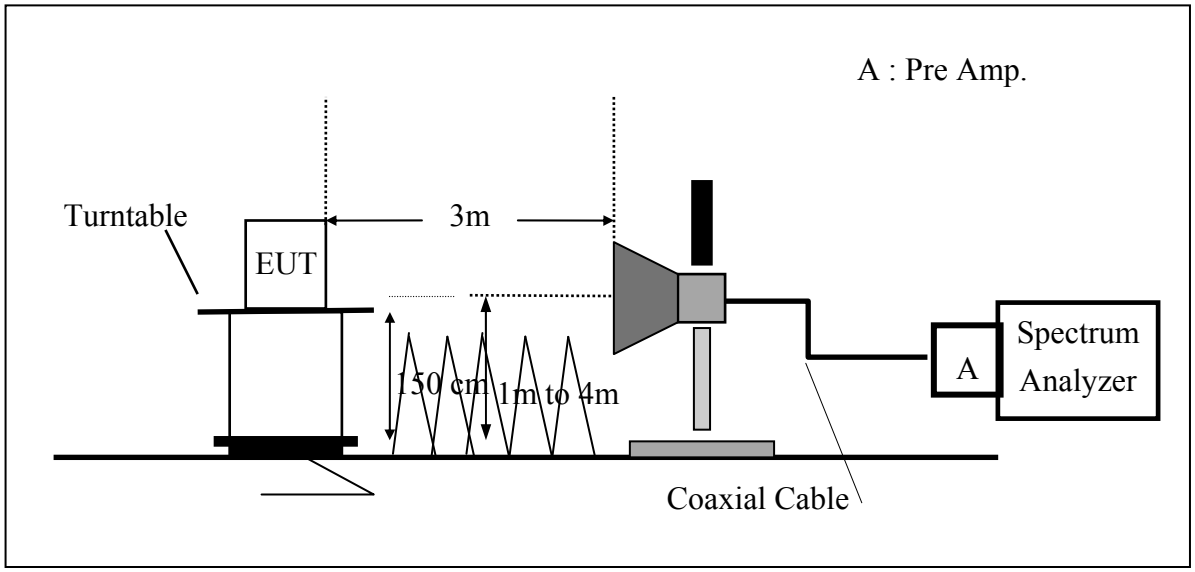
7.2. Test SET-UP

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

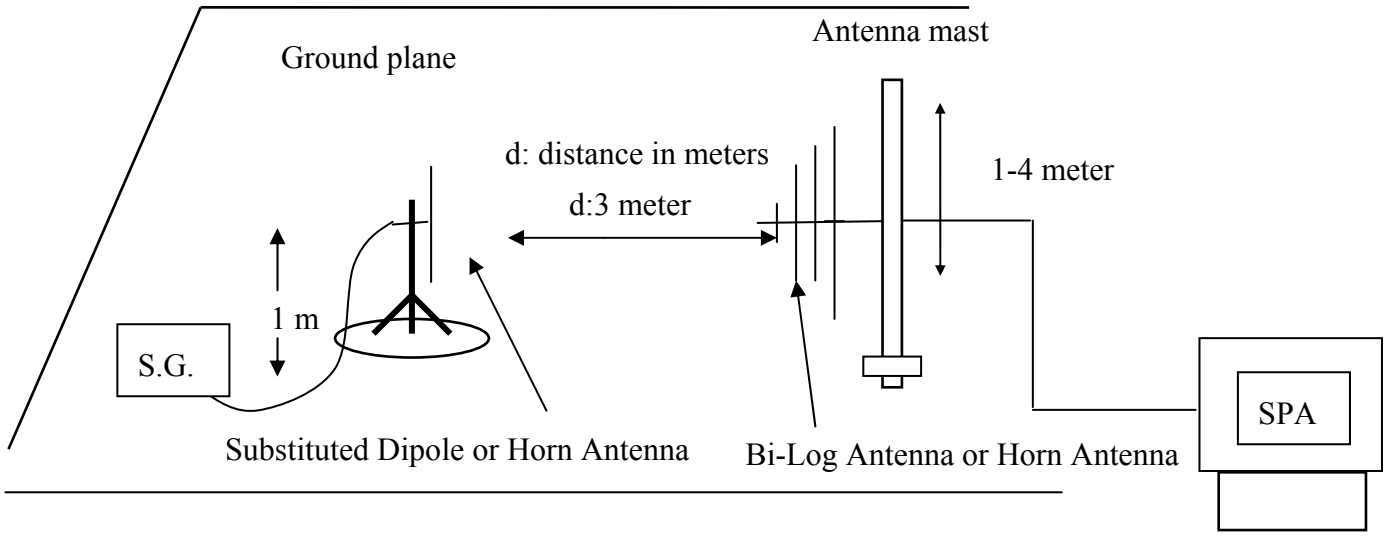


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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(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. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)
7. ERP = S.G. output (dBm) + Antenna Gain (dBd) – 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 ≈ 1~5% 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 sweet time = 601*10^-3 = 6s.

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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*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

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Spectrum Analyzer	R&S	FSV-30	101398	10/07/2014	10/06/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/31/2014	10/30/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016
Horn antenna	ETS.LINDGREN	3117	123991	12/19/2014	12/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/25/2015	07/24/2016
Network Analyze	Anritsu	MS4644A	1216312	05/23/2015	05/22/2016
Signal Generator	Agilent	E4438C	MY45093613	07/31/2015	07/30/2016
Pre-Amplifier	Agilent	8447D	1937A02834	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	060776	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/02/2015	01/01/2016
Filter 800-1000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1800-2000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1700-1800	Micro-Tronics	BRC15751	001	01/02/2015	01/01/2016
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2015	01/01/2016
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/01/2015	06/30/2016

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

*Antenna Part No.: GSA.8841.A.105111

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	25.25	3.45	-2.94	25.77	38.45
			H	17.07	3.45	-2.94	17.58	38.45
	836.6	190	V	25.46	3.46	-2.97	**25.95**	38.45
			H	16.88	3.46	-2.97	17.36	38.45
	848.8	251	V	25.20	3.47	-3.01	25.66	38.45
			H	18.13	3.47	-3.01	18.59	38.45

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
EDGE 850	824.2	128	V	23.10	3.45	-2.94	**23.61**	38.45
			H	15.90	3.45	-2.94	16.41	38.45
	836.6	190	V	22.51	3.46	-2.97	23.00	38.45
			H	15.78	3.46	-2.97	16.27	38.45
	848.8	251	V	23.14	3.47	-3.01	23.60	38.45
			H	17.00	3.47	-3.01	17.46	38.45

Remark：

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

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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	26.92	4.84	-4.49	**27.28**	33.01
			H	17.93	4.84	-4.49	18.29	33.01
	1880.0	661	V	26.35	4.79	-4.53	26.62	33.01
			H	23.46	4.79	-4.53	23.73	33.01
	1909.8	810	V	26.36	4.74	-4.57	26.54	33.01
			H	20.89	4.74	-4.57	21.07	33.01

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
EDGE 1900	1850.2	512	V	26.44	4.84	-4.49	**26.80**	33.01
			H	13.68	4.84	-4.49	14.04	33.01
	1880.0	661	V	26.27	4.79	-4.53	26.54	33.01
			H	19.18	4.79	-4.53	19.45	33.01
	1909.8	810	V	26.25	4.74	-4.57	26.43	33.01
			H	15.87	4.74	-4.57	16.04	33.01

Remark：

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

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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
WCDMA B2	1852.4	9262	V	22.96	4.84	-4.49	23.31	33.01
			H	11.75	4.84	-4.49	12.10	33.01
	1880.0	9400	V	25.86	4.79	-4.53	**26.12**	33.01
			H	16.18	4.79	-4.53	16.44	33.01
	1907.6	9538	V	24.34	4.75	-4.56	24.53	33.01
			H	14.68	4.75	-4.56	14.87	33.01

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
HSDPA B2	1852.4	9262	V	26.86	4.84	-4.49	27.22	33.01
			H	15.33	4.84	-4.49	15.68	33.01
	1880.0	9400	V	26.86	4.79	-4.53	27.13	33.01
			H	20.93	4.79	-4.53	21.20	33.01
	1907.6	9538	V	27.13	4.75	-4.56	**27.32**	33.01
			H	18.13	4.75	-4.56	18.31	33.01

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
HSUPA B2	1852.4	9262	V	24.80	4.84	-4.49	25.15	33.01
			H	13.47	4.84	-4.49	13.82	33.01
	1880.0	9400	V	26.74	4.79	-4.53	**27.01**	33.01
			H	19.36	4.79	-4.53	19.63	33.01
	1907.6	9538	V	27.02	4.75	-4.56	26.21	33.01
			H	16.03	4.75	-4.56	16.21	33.01

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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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
WCDMA B4	1712.4	1312	V	25.50	5.09	-4.29	**26.29**	30.00
			H	13.97	5.08	-4.29	14.76	30.00
	1732.6	1413	V	24.28	5.05	-4.31	25.02	30.00
			H	13.96	5.05	-4.31	14.69	30.00
	1752.6	1513	V	25.31	5.01	-4.37	25.95	30.00
			H	15.54	5.01	-4.37	16.18	30.00

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
HSDPA B4	1712.4	1312	V	27.75	5.09	-4.29	28.55	30.00
			H	16.47	5.09	-4.29	17.26	30.00
	1732.6	1413	V	27.34	5.05	-4.31	28.08	30.00
			H	18.05	5.05	-4.31	18.79	30.00
	1752.6	1513	V	28.35	5.01	-4.37	**28.99**	30.00
			H	20.50	5.01	-4.37	21.14	30.00

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
HSUPA B4	1712.4	1312	V	27.13	5.09	-4.29	**27.93**	30.00
			H	15.87	5.09	-4.29	16.67	30.00
	1732.6	1413	V	26.94	5.05	-4.31	27.67	30.00
			H	16.69	5.05	-4.31	17.43	30.00
	1752.6	1513	V	26.81	5.01	-4.37	27.46	30.00
			H	19.11	5.01	-4.37	19.75	30.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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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
WCDMA B5	826.4	4132	V	19.89	3.46	-2.94	20.41	38.45
			H	9.42	3.46	-2.95	9.93	38.45
	836.6	4183	V	20.00	3.46	-2.97	**20.49**	38.45
			H	9.21	3.46	-2.97	9.70	38.45
	846.6	4233	V	19.95	3.47	-3.00	20.42	38.45
			H	11.10	3.47	-3.00	11.57	38.45

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
HSDPA B5	826.4	4132	V	21.11	3.46	-2.95	21.62	38.45
			H	11.55	3.46	-2.94	12.06	38.45
	836.6	4183	V	21.38	3.46	-2.97	**21.87**	38.45
			H	12.42	3.46	-2.97	12.90	38.45
	846.6	4233	V	21.36	3.47	-3.00	21.82	38.45
			H	13.70	3.47	-3.00	14.17	38.45

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
HSUPA B5	826.4	4132	V	20.25	3.46	-2.95	20.76	38.45
			H	10.77	3.46	-2.94	11.29	38.45
	836.6	4183	V	20.29	3.46	-2.97	20.78	38.45
			H	11.25	3.46	-2.97	11.74	38.45
	846.6	4233	V	20.72	3.47	-3.00	**21.19**	38.45
			H	11.78	3.47	-3.00	12.25	38.45

Remark：

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

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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
CDMA BC0	824.7	1013	V	20.49	3.45	-2.94	21.00	38.45
			H	9.98	3.45	-2.94	10.50	38.45
	836.52	384	V	21.05	3.46	-2.97	**21.54**	38.45
			H	10.21	3.46	-2.97	10.70	38.45
	848.31	777	V	19.87	3.47	-3.00	20.33	38.45
			H	9.01	3.47	-3.00	9.47	38.45

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
EVDO 2000 BC0	824.7	1013	V	20.40	3.45	-2.94	**20.92**	38.45
			H	8.03	3.45	-2.94	8.55	38.45
	836.52	384	V	19.03	3.46	-2.97	19.52	38.45
			H	8.77	3.46	-2.97	9.26	38.45
	848.31	777	V	18.59	3.47	-3.00	19.05	38.45
			H	7.09	3.47	-3.00	7.55	38.45

Remark：

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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
CDMA BC1	1851.25	25	V	20.92	4.84	-4.49	**21.27**	33.00
			H	9.55	4.84	-4.49	9.91	33.00
	1880.0	600	V	20.06	4.79	-4.53	20.33	33.00
			H	10.99	4.79	-4.53	11.26	33.00
	1908.75	1175	V	16.74	4.75	-4.56	16.92	33.00
			H	6.89	4.75	-4.56	7.07	33.00

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
EVDO 2000 BC1	1851.25	25	V	18.10	4.84	-4.49	**18.46**	33.00
			H	8.06	4.84	-4.49	8.41	33.00
	1880.0	600	V	17.18	4.79	-4.53	17.44	33.00
			H	9.29	4.79	-4.53	9.55	33.00
	1908.75	1175	V	14.57	4.75	-4.56	14.75	33.00
			H	2.73	4.75	-4.56	2.91	33.00

Remark：

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

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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
CDMA BC10	817.9	476	V	20.60	3.45	-2.92	21.14	50.00
			H	12.12	3.45	-2.92	12.66	50.00
	820.5	580	V	20.84	3.45	-2.93	**21.37**	50.00
			H	9.30	3.45	-2.92	9.83	50.00
	823.1	684	V	20.66	3.45	-2.93	21.18	50.00
			H	4.03	3.45	-2.93	4.55	50.00

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
EVDO 2000 BC10	817.9	476	V	19.80	3.45	-2.92	20.34	50.00
			H	9.19	3.45	-2.92	9.72	50.00
	820.5	580	V	20.34	3.45	-2.93	20.87	50.00
			H	3.46	3.45	-2.92	3.99	50.00
	823.1	684	V	20.45	3.45	-2.93	**20.97**	50.00
			H	1.47	3.45	-2.93	1.99	50.00

Remark：

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

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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
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	28.18	4.84	-4.49	28.53	33.01
			H	16.13	4.84	-4.49	16.48	33.01
	1880.0	18900	V	29.01	4.80	-4.52	**29.29**	33.01
			H	15.86	4.80	-4.52	16.13	33.01
	1909.3	19193	V	26.03	4.75	-4.56	26.21	33.01
			H	11.13	4.75	-4.56	11.31	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	28.02	4.84	-4.49	28.38	33.01
			H	15.97	4.84	-4.49	16.33	33.01
	1880.0	18900	V	28.88	4.80	-4.52	**29.15**	33.01
			H	15.83	4.80	-4.52	16.10	33.01
	1909.3	19193	V	25.68	4.75	-4.56	25.86	33.01
			H	10.56	4.75	-4.56	10.74	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	29.03	4.84	-4.49	**29.38**	33.01
			H	17.21	4.84	-4.49	17.57	33.01
	1880.0	18900	V	28.79	4.80	-4.52	29.06	33.01
			H	16.88	4.79	-4.53	17.14	33.01
	1909.3	19193	V	26.82	4.75	-4.56	27.00	33.01
			H	11.59	4.75	-4.56	11.78	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	28.84	4.84	-4.49	**29.19**	33.01
			H	17.14	4.84	-4.49	17.49	33.01
	1880.0	18900	V	28.76	4.79	-4.53	29.03	33.01
			H	16.94	4.79	-4.53	17.21	33.01
	1909.3	19193	V	26.32	4.75	-4.56	26.50	33.01
			H	11.31	4.75	-4.56	11.49	33.01

Remark：

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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
BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	28.34	4.84	-4.49	**28.69**	33.01
			H	16.23	4.84	-4.49	16.58	33.01
	1880.0	18900	V	27.95	4.80	-4.52	28.23	33.01
			H	16.11	4.80	-4.52	16.38	33.01
	1908.5	19185	V	27.61	4.75	-4.56	27.80	33.01
			H	12.29	4.75	-4.56	12.48	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	28.08	4.84	-4.49	28.43	33.01
			H	16.10	4.84	-4.49	16.46	33.01
	1880.0	18900	V	28.67	4.79	-4.53	**28.94**	33.01
			H	15.84	4.80	-4.52	16.11	33.01
	1908.5	19185	V	26.80	4.75	-4.56	26.98	33.01
			H	12.02	4.75	-4.56	12.21	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	28.28	4.84	-4.49	28.63	33.01
			H	17.12	4.84	-4.49	17.47	33.01
	1880.0	18900	V	28.76	4.80	-4.52	**29.03**	33.01
			H	16.89	4.80	-4.52	17.16	33.01
	1908.5	19185	V	28.43	4.75	-4.56	28.62	33.01
			H	13.30	4.75	-4.56	13.49	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	28.75	4.84	-4.49	**29.11**	33.01
			H	16.48	4.84	-4.49	16.83	33.01
	1880.0	18900	V	28.43	4.79	-4.53	28.69	33.01
			H	16.63	4.79	-4.53	16.90	33.01
	1908.5	19185	V	27.37	4.75	-4.56	27.55	33.01
			H	11.49	4.75	-4.56	11.68	33.01

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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
BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	28.50	4.84	-4.49	28.86	33.01
			H	16.52	4.84	-4.49	16.87	33.01
	1880.0	18900	V	29.02	4.80	-4.52	**29.29**	33.01
			H	16.10	4.80	-4.52	16.37	33.01
	1907.5	19175	V	27.28	4.75	-4.56	27.47	33.01
			H	12.40	4.75	-4.56	12.59	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	28.17	4.84	-4.49	28.52	33.01
			H	15.73	4.84	-4.49	16.08	33.01
	1880.0	18900	V	28.63	4.79	-4.53	**28.89**	33.01
			H	15.73	4.79	-4.53	16.00	33.01
	1907.5	19175	V	26.90	4.75	-4.56	27.08	33.01
			H	11.06	4.75	-4.56	11.24	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	28.35	4.84	-4.49	28.70	33.01
			H	17.19	4.84	-4.49	17.54	33.01
	1880.0	18900	V	28.78	4.79	-4.53	**29.04**	33.01
			H	16.93	4.80	-4.52	17.21	33.01
	1907.5	19175	V	27.74	4.75	-4.56	27.94	33.01
			H	12.68	4.75	-4.56	12.87	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	28.61	4.84	-4.49	**28.96**	33.01
			H	16.17	4.84	-4.49	16.52	33.01
	1880.0	18900	V	28.17	4.79	-4.53	28.44	33.01
			H	16.26	4.79	-4.53	16.53	33.01
	1907.5	19175	V	27.47	4.75	-4.56	27.65	33.01
			H	11.74	4.75	-4.56	11.92	33.01

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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
BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	28.09	4.84	-4.49	**28.44**	33.01
			H	16.27	4.84	-4.49	16.62	33.01
	1880.0	18900	V	27.84	4.80	-4.52	28.12	33.01
			H	16.28	4.80	-4.52	16.56	33.01
	1905.0	19150	V	25.81	4.76	-4.55	26.02	33.01
			H	10.94	4.76	-4.56	11.14	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	28.21	4.83	-4.50	**28.54**	33.01
			H	15.61	4.83	-4.50	15.94	33.01
	1880.0	18900	V	28.05	4.79	-4.53	28.31	33.01
			H	15.10	4.79	-4.53	15.36	33.01
	1905.0	19150	V	26.63	4.75	-4.56	26.82	33.01
			H	10.64	4.75	-4.56	10.83	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	28.91	4.84	-4.49	**29.26**	33.01
			H	16.71	4.84	-4.49	17.06	33.01
	1880.0	18900	V	28.67	4.80	-4.52	28.96	33.01
			H	17.02	4.80	-4.52	17.30	33.01
	1905.0	19150	V	26.24	4.76	-4.55	26.45	33.01
			H	11.25	4.76	-4.55	11.46	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	28.60	4.83	-4.50	**28.94**	33.01
			H	16.01	4.83	-4.50	16.35	33.01
	1880.0	18900	V	28.27	4.79	-4.53	28.53	33.01
			H	15.36	4.79	-4.53	15.62	33.01
	1905.0	19150	V	27.21	4.75	-4.56	27.39	33.01
			H	11.45	4.75	-4.56	11.63	33.01

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	28.22	4.84	-4.49	28.57	33.01
			H	16.15	4.84	-4.49	16.50	33.01
	1880.0	18900	V	28.95	4.81	-4.52	**29.24**	33.01
			H	16.69	4.81	-4.52	16.98	33.01
	1902.5	19125	V	26.05	4.77	-4.55	26.28	33.01
			H	10.85	4.77	-4.55	11.07	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	28.74	4.82	-4.50	**29.06**	33.01
			H	16.14	4.82	-4.50	16.46	33.01
	1880.0	18900	V	28.69	4.79	-4.53	28.95	33.01
			H	14.30	4.79	-4.53	14.55	33.01
	1902.5	19125	V	26.95	4.75	-4.56	27.14	33.01
			H	11.32	4.75	-4.56	11.50	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	28.15	4.84	-4.49	28.50	33.01
			H	17.09	4.84	-4.49	17.44	33.01
	1880.0	18900	V	28.81	4.81	-4.52	**29.10**	33.01
			H	17.53	4.81	-4.52	17.83	33.01
	1902.5	19125	V	26.44	4.77	-4.55	26.67	33.01
			H	11.22	4.77	-4.54	11.44	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	28.61	4.82	-4.50	28.93	33.01
			H	16.90	4.82	-4.50	17.22	33.01
	1880.0	18900	V	28.88	4.79	-4.53	**29.14**	33.01
			H	15.17	4.78	-4.54	15.41	33.01
	1902.5	19125	V	27.49	4.75	-4.56	27.68	33.01
			H	11.96	4.75	-4.56	12.14	33.01

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	28.22	4.84	-4.49	28.58	33.01
			H	16.16	4.84	-4.49	16.51	33.01
	1880.0	18900	V	28.67	4.81	-4.51	**28.97**	33.01
			H	16.87	4.81	-4.52	17.16	33.01
	1900.0	19100	V	26.82	4.77	-4.54	27.05	33.01
			H	12.72	4.77	-4.54	12.95	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	28.28	4.81	-4.51	**28.58**	33.01
			H	16.81	4.81	-4.51	17.11	33.01
	1880.0	18900	V	27.72	4.78	-4.54	27.97	33.01
			H	13.87	4.78	-4.54	14.12	33.01
	1900.0	19100	V	26.83	4.75	-4.56	27.02	33.01
			H	11.82	4.75	-4.56	12.00	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	28.11	4.84	-4.49	28.46	33.01
			H	17.05	4.84	-4.49	17.40	33.01
	1880.0	18900	V	28.47	4.81	-4.51	**28.76**	33.01
			H	17.88	4.81	-4.52	18.17	33.01
	1900.0	19100	V	27.30	4.77	-4.54	27.53	33.01
			H	13.19	4.77	-4.54	13.42	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	28.33	4.81	-4.51	28.64	33.01
			H	17.92	4.81	-4.51	18.22	33.01
	1880.0	18900	V	28.42	4.78	-4.54	**28.66**	33.01
			H	14.61	4.78	-4.54	14.86	33.01
	1900.0	19100	V	27.53	4.75	-4.56	27.72	33.01
			H	12.54	4.75	-4.56	12.73	33.01

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	28.28	5.09	-4.29	**29.08**	30.00
			H	16.69	5.09	-4.29	17.49	30.00
	1732.5	20175	V	28.02	5.05	-4.32	28.75	30.00
			H	15.56	5.05	-4.32	16.29	30.00
	1754.3	20393	V	28.32	5.01	-4.37	28.96	30.00
			H	14.79	5.01	-4.37	15.43	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	28.06	5.08	-4.29	28.85	30.00
			H	16.27	5.09	-4.29	17.07	30.00
	1732.5	20175	V	28.14	5.05	-4.32	28.87	30.00
			H	15.79	5.04	-4.32	16.52	30.00
	1754.3	20393	V	28.25	5.01	-4.37	**28.88**	30.00
			H	13.88	5.01	-4.37	14.52	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	27.74	5.09	-4.29	28.54	30.00
			H	17.04	5.09	-4.29	17.84	30.00
	1732.5	20175	V	27.75	5.05	-4.32	28.48	30.00
			H	16.30	5.05	-4.32	17.03	30.00
	1754.3	20393	V	28.48	5.01	-4.37	**29.13**	30.00
			H	15.96	5.01	-4.37	16.61	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	28.26	5.08	-4.29	29.06	30.00
			H	17.50	5.09	-4.29	18.29	30.00
	1732.5	20175	V	28.36	5.04	-4.32	**29.09**	30.00
			H	17.05	5.04	-4.32	17.78	30.00
	1754.3	20393	V	27.98	5.01	-4.37	28.62	30.00
			H	14.96	5.01	-4.37	15.60	30.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	27.78	5.09	-4.29	**28.58**	30.00
			H	16.26	5.09	-4.29	17.06	30.00
	1732.5	20175	V	27.72	5.05	-4.31	28.45	30.00
			H	15.07	5.05	-4.31	15.81	30.00
	1753.5	20385	V	27.93	5.01	-4.37	28.57	30.00
			H	14.33	5.02	-4.36	14.98	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	27.41	5.08	-4.29	28.19	30.00
			H	15.39	5.09	-4.29	16.19	30.00
	1732.5	20175	V	28.50	5.04	-4.32	**29.22**	30.00
			H	16.03	5.04	-4.32	16.75	30.00
	1753.5	20385	V	27.95	5.01	-4.37	28.58	30.00
			H	13.82	5.01	-4.37	14.46	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	28.67	5.09	-4.29	**29.47**	30.00
			H	17.01	5.09	-4.29	17.80	30.00
	1732.5	20175	V	28.31	5.05	-4.32	29.04	30.00
			H	15.67	5.05	-4.31	16.40	30.00
	1753.5	20385	V	19.90	5.01	-4.37	20.54	30.00
			H	14.30	5.01	-4.37	14.94	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	28.22	5.09	-4.29	29.01	30.00
			H	2.63	5.09	-4.29	3.43	30.00
	1732.5	20175	V	19.01	5.04	-4.32	19.73	30.00
			H	10.85	5.05	-4.31	11.58	30.00
	1753.5	20385	V	28.49	5.01	-4.37	**29.13**	30.00
			H	15.12	5.01	-4.37	15.75	30.00

Remark：

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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
BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	27.78	5.09	-4.29	28.58	30.00
			H	16.12	5.09	-4.29	16.92	30.00
	1732.5	20175	V	27.44	5.05	-4.31	28.18	30.00
			H	15.38	5.05	-4.31	16.12	30.00
	1752.5	20375	V	28.46	5.01	-4.37	**29.10**	30.00
			H	16.56	5.01	-4.37	17.20	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	27.13	5.08	-4.29	27.92	30.00
			H	14.94	5.08	-4.29	15.73	30.00
	1732.5	20175	V	28.06	5.04	-4.32	28.78	30.00
			H	16.46	5.04	-4.32	17.17	30.00
	1752.5	20375	V	28.30	5.01	-4.37	**28.94**	30.00
			H	14.50	5.01	-4.37	15.14	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	27.72	5.09	-4.29	28.51	30.00
			H	17.08	5.09	-4.29	17.88	30.00
	1732.5	20175	V	28.07	5.05	-4.31	**28.81**	30.00
			H	16.05	5.05	-4.31	16.79	30.00
	1752.5	20375	V	28.09	5.01	-4.37	28.74	30.00
			H	16.85	5.01	-4.37	17.50	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	27.91	5.08	-4.29	28.70	30.00
			H	15.78	5.08	-4.29	16.56	30.00
	1732.5	20175	V	27.91	5.04	-4.32	28.62	30.00
			H	17.34	5.04	-4.32	18.06	30.00
	1752.5	20375	V	28.14	5.01	-4.37	**28.78**	30.00
			H	15.84	5.01	-4.37	16.48	30.00

Remark：

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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
BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	27.84	5.09	-4.29	28.64	30.00
			H	16.23	5.09	-4.29	17.03	30.00
	1732.0	20175	V	26.94	5.05	-4.31	27.69	30.00
			H	14.53	5.05	-4.31	15.27	30.00
	1750.0	20350	V	28.07	5.02	-4.35	**28.74**	30.00
			H	16.09	5.02	-4.35	16.76	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	26.43	5.08	-4.30	27.21	30.00
			H	13.33	5.08	-4.29	14.12	30.00
	1732.0	20175	V	27.91	5.04	-4.32	28.63	30.00
			H	17.69	5.04	-4.32	18.41	30.00
	1750.0	20350	V	28.23	5.01	-4.37	**28.87**	30.00
			H	14.95	5.01	-4.37	15.59	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	28.07	5.09	-4.29	28.87	30.00
			H	17.44	5.09	-4.29	18.24	30.00
	1732.0	20175	V	27.60	5.05	-4.31	28.34	30.00
			H	15.21	5.05	-4.31	15.95	30.00
	1750.0	20350	V	28.70	5.02	-4.35	**29.37**	30.00
			H	17.02	5.02	-4.35	17.69	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	26.83	5.08	-4.30	27.61	30.00
			H	13.89	5.07	-4.30	14.67	30.00
	1732.0	20175	V	28.66	5.04	-4.32	**29.38**	30.00
			H	17.90	5.04	-4.32	18.62	30.00
	1750.0	20350	V	28.60	5.01	-4.37	29.24	30.00
			H	15.92	5.01	-4.37	16.56	30.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	27.84	5.09	-4.29	28.64	30.00
			H	16.26	5.09	-4.29	17.06	30.00
	1732.5	20175	V	26.50	5.06	-4.30	27.26	30.00
			H	13.26	5.06	-4.30	14.02	30.00
	1747.5	20325	V	28.34	5.03	-4.34	**29.03**	30.00
			H	16.84	5.03	-4.34	17.53	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	26.11	5.06	-4.30	26.87	30.00
			H	12.85	5.06	-4.30	13.60	30.00
	1732.5	20175	V	28.37	5.03	-4.34	**29.06**	30.00
			H	17.06	5.03	-4.34	17.75	30.00
	1747.5	20325	V	28.42	5.01	-4.37	29.06	30.00
			H	14.78	5.01	-4.37	15.43	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	27.79	5.09	-4.29	28.59	30.00
			H	17.15	5.09	-4.29	17.94	30.00
	1732.5	20175	V	17.03	5.06	-4.30	17.79	30.00
			H	13.98	5.06	-4.30	14.74	30.00
	1747.5	20325	V	28.47	5.03	-4.34	**29.16**	30.00
			H	17.76	5.03	-4.34	18.45	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	26.55	5.06	-4.30	27.30	30.00
			H	13.27	5.06	-4.30	14.03	30.00
	1732.5	20175	V	28.37	5.03	-4.34	29.06	30.00
			H	17.91	5.03	-4.34	18.61	30.00
	1747.5	20325	V	28.84	5.01	-4.37	**29.49**	30.00
			H	15.86	5.01	-4.37	16.50	30.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	27.83	5.08	-4.29	**28.62**	30.00
			H	16.14	5.09	-4.29	16.93	30.00
	1732.5	20175	V	26.02	5.06	-4.30	26.78	30.00
			H	12.82	5.06	-4.30	13.58	30.00
	1745.0	20300	V	27.78	5.04	-4.33	28.50	30.00
			H	17.41	5.04	-4.33	18.12	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	27.21	5.06	-4.30	27.97	30.00
			H	14.75	5.06	-4.30	15.51	30.00
	1732.5	20175	V	28.37	5.03	-4.34	**29.06**	30.00
			H	16.69	5.04	-4.33	17.40	30.00
	1745.0	20300	V	28.12	5.01	-4.37	28.76	30.00
			H	15.21	5.01	-4.37	15.85	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	27.77	5.08	-4.29	28.56	30.00
			H	17.07	5.08	-4.29	17.86	30.00
	1732.5	20175	V	26.53	5.06	-4.30	27.29	30.00
			H	13.28	5.06	-4.30	14.04	30.00
	1745.0	20300	V	28.60	5.04	-4.33	**29.31**	30.00
			H	18.14	5.04	-4.33	18.85	30.00
BAND 4 BW: 15M 16QAM RB: 1,99	1720.0	20050	V	27.68	5.06	-4.30	28.44	30.00
			H	15.28	5.06	-4.30	16.03	30.00
	1732.5	20175	V	28.24	5.04	-4.33	**28.95**	30.00
			H	17.42	5.04	-4.33	18.12	30.00
	1745.0	20300	V	28.24	5.01	-4.37	28.89	30.00
			H	15.27	5.01	-4.37	15.92	30.00

Remark：

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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
BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	21.30	3.46	-2.94	**21.81**	38.45
			H	15.89	3.46	-2.94	16.40	38.45
	836.5	20525	V	17.16	3.46	-2.97	17.65	38.45
			H	14.18	3.46	-2.97	14.67	38.45
	848.3	20643	V	16.13	3.47	-3.01	16.59	38.45
			H	14.34	3.47	-3.00	14.81	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	20.91	3.46	-2.95	**21.42**	38.45
			H	15.13	3.46	-2.95	15.64	38.45
	836.5	20525	V	16.82	3.46	-2.97	17.31	38.45
			H	14.02	3.46	-2.97	14.51	38.45
	848.3	20643	V	18.08	3.47	-3.00	18.54	38.45
			H	15.72	3.47	-3.00	16.18	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	21.59	3.46	-2.94	22.10	38.45
			H	17.56	3.46	-2.94	18.08	38.45
	836.5	20525	V	21.88	3.46	-2.97	**22.37**	38.45
			H	15.88	3.46	-2.97	16.37	38.45
	848.3	20643	V	18.36	3.47	-3.01	18.82	38.45
			H	16.48	3.47	-3.00	16.95	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	21.48	3.46	-2.95	**21.99**	38.45
			H	17.63	3.46	-2.94	18.14	38.45
	836.5	20525	V	18.57	3.46	-2.97	19.06	38.45
			H	15.80	3.46	-2.97	16.29	38.45
	848.3	20643	V	19.15	3.47	-3.00	19.62	38.45
			H	16.87	3.47	-3.00	17.33	38.45

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	21.50	3.46	-2.94	22.01	38.45
			H	13.70	3.46	-2.94	14.22	38.45
	836.5	20525	V	21.00	3.46	-2.97	21.49	38.45
			H	11.51	3.46	-2.97	12.00	38.45
	847.5	20635	V	21.77	3.47	-3.01	**22.23**	38.45
			H	11.03	3.47	-3.01	11.49	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	21.54	3.46	-2.94	22.05	38.45
			H	13.97	3.46	-2.94	14.49	38.45
	836.5	20525	V	20.97	3.46	-2.97	21.46	38.45
			H	11.21	3.46	-2.97	11.70	38.45
	847.5	20635	V	21.72	3.47	-3.01	**22.18**	38.45
			H	9.95	3.47	-3.01	10.42	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	20.96	3.46	-2.94	21.47	38.45
			H	14.26	3.46	-2.94	14.78	38.45
	836.5	20525	V	21.58	3.46	-2.97	**22.07**	38.45
			H	12.09	3.46	-2.97	12.58	38.45
	847.5	20635	V	21.47	3.47	-3.01	21.94	38.45
			H	11.72	3.47	-3.01	12.18	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	21.22	3.46	-2.94	21.73	38.45
			H	14.32	3.46	-2.94	14.83	38.45
	836.5	20525	V	21.63	3.46	-2.97	**22.12**	38.45
			H	12.07	3.46	-2.97	12.56	38.45
	847.5	20635	V	21.41	3.47	-3.01	21.87	38.45
			H	11.72	3.47	-3.01	12.18	38.45

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	21.60	3.46	-2.94	**22.11**	38.45
			H	14.02	3.46	-2.94	14.53	38.45
	836.5	20525	V	21.10	3.46	-2.96	21.59	38.45
			H	11.62	3.46	-2.97	12.11	38.45
	846.5	20625	V	20.75	3.46	-2.99	21.22	38.45
			H	10.57	3.46	-2.99	11.04	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	21.57	3.46	-2.95	22.08	38.45
			H	13.85	3.46	-2.95	14.36	38.45
	836.5	20525	V	21.84	3.46	-2.98	**22.32**	38.45
			H	11.10	3.46	-2.98	11.58	38.45
	846.5	20625	V	21.38	3.47	-3.00	21.84	38.45
			H	10.79	3.47	-3.00	11.25	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	21.09	3.46	-2.94	21.61	38.45
			H	14.70	3.46	-2.94	15.21	38.45
	836.5	20525	V	21.65	3.46	-2.97	**22.14**	38.45
			H	12.33	3.46	-2.96	12.83	38.45
	846.5	20625	V	21.22	3.46	-2.99	21.69	38.45
			H	11.04	3.46	-2.99	11.52	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	21.35	3.46	-2.95	21.85	38.45
			H	14.91	3.46	-2.95	15.41	38.45
	836.5	20525	V	21.63	3.46	-2.98	**22.11**	38.45
			H	12.22	3.46	-2.98	12.71	38.45
	846.5	20625	V	21.32	3.47	-3.00	21.78	38.45
			H	11.93	3.47	-3.00	12.40	38.45

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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
BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	21.59	3.46	-2.95	22.10	38.45
			H	15.12	3.46	-2.94	15.63	38.45
	836.5	20525	V	21.16	3.46	-2.97	21.65	38.45
			H	12.42	3.46	-2.97	12.91	38.45
	844.0	20600	V	21.86	3.46	-2.99	**22.34**	38.45
			H	11.24	3.46	-2.99	11.72	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	21.02	3.46	-2.96	21.52	38.45
			H	11.87	3.46	-2.96	12.36	38.45
	836.5	20525	V	21.57	3.46	-2.98	22.05	38.45
			H	10.89	3.46	-2.99	11.36	38.45
	844.0	20600	V	21.62	3.47	-3.00	**22.08**	38.45
			H	10.99	3.47	-3.00	11.46	38.45
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	21.03	3.46	-2.95	21.54	38.45
			H	14.70	3.46	-2.94	15.22	38.45
	836.5	20525	V	21.65	3.46	-2.96	**22.15**	38.45
			H	13.08	3.46	-2.97	13.57	38.45
	844.0	20600	V	21.51	3.46	-2.99	21.98	38.45
			H	11.99	3.46	-2.99	12.47	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	21.53	3.46	-2.97	**22.02**	38.45
			H	12.53	3.46	-2.96	13.02	38.45
	836.5	20525	V	21.31	3.46	-2.98	21.79	38.45
			H	11.76	3.46	-2.99	12.24	38.45
	844.0	20600	V	21.36	3.47	-3.01	21.82	38.45
			H	11.85	3.47	-3.00	12.32	38.45

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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
BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	22.39	3.38	-2.78	22.99	34.77
			H	14.08	3.37	-2.77	14.68	34.77
	782.0	23230	V	22.20	3.37	-2.77	22.80	34.77
			H	13.32	3.37	-2.77	13.92	34.77
	784.5	23255	V	22.58	3.38	-2.78	**23.18**	34.77
			H	12.85	3.39	-2.79	13.45	34.77
BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	22.48	3.38	-2.78	23.08	34.77
			H	12.83	3.39	-2.79	13.43	34.77
	782.0	23230	V	22.55	3.39	-2.79	**23.15**	34.77
			H	12.95	3.40	-2.80	13.55	34.77
	784.5	23255	V	22.37	3.39	-2.80	22.96	34.77
			H	12.86	3.40	-2.80	13.46	34.77
BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	22.99	3.37	-2.77	23.59	34.77
			H	15.05	3.37	-2.77	15.65	34.77
	782.0	23230	V	22.27	3.38	-2.78	22.86	34.77
			H	13.86	3.37	-2.77	14.46	34.77
	784.5	23255	V	23.02	3.38	-2.78	**23.61**	34.77
			H	13.16	3.39	-2.80	13.75	34.77
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	22.13	3.38	-2.78	22.73	34.77
			H	15.08	3.38	-2.78	15.68	34.77
	782.0	23230	V	22.19	3.39	-2.79	22.78	34.77
			H	13.90	3.37	-2.77	14.50	34.77
	784.5	23255	V	23.04	3.40	-2.80	**23.64**	34.77
			H	13.18	3.39	-2.80	13.77	34.77

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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
BAND 13 BW: 10M QPSK RB: 1,0	782.0	23230	V	22.64	3.37	-2.77	**23.24**	34.77
			H	14.13	3.38	-2.78	14.73	34.77
BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230	V	22.62	3.39	-2.8	**23.22**	34.77
			H	12.93	3.39	-2.8	13.52	34.77
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	23.11	3.38	-2.78	**23.71**	34.77
			H	14.73	3.38	-2.78	15.33	34.77
BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230	V	22.13	3.39	-2.8	**22.73**	34.77
			H	13.63	3.4	-2.8	14.22	34.77

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	19.87	3.37	-2.60	20.64	34.77
			H	15.63	3.37	-2.60	16.40	34.77
	710.0	23790	V	20.08	3.37	-2.60	**20.85**	34.77
			H	13.52	3.37	-2.60	14.29	34.77
	713.5	23825	V	19.89	3.36	-2.61	20.64	34.77
			H	13.57	3.35	-2.61	14.31	34.77
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	20.18	3.37	-2.60	**20.95**	34.77
			H	13.74	3.37	-2.60	14.51	34.77
	710.0	23790	V	19.50	3.35	-2.61	20.24	34.77
			H	12.48	3.35	-2.61	13.22	34.77
	713.5	23825	V	19.84	3.35	-2.61	20.58	34.77
			H	9.69	3.35	-2.61	10.43	34.77
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	20.48	3.37	-2.60	21.25	34.77
			H	16.58	3.37	-2.60	17.35	34.77
	710.0	23790	V	20.60	3.37	-2.60	21.37	34.77
			H	14.39	3.37	-2.60	15.16	34.77
	713.5	23825	V	21.54	3.35	-2.61	**22.29**	34.77
			H	13.93	3.35	-2.61	14.68	34.77
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	20.92	3.37	-2.60	21.68	34.77
			H	14.34	3.37	-2.60	15.11	34.77
	710.0	23790	V	21.24	3.35	-2.61	**21.99**	34.77
			H	13.70	3.35	-2.61	14.44	34.77
	713.5	23825	V	20.60	3.35	-2.61	21.34	34.77
			H	11.04	3.35	-2.61	11.78	34.77

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	20.18	3.37	-2.60	**20.95**	34.77
			H	15.59	3.37	-2.60	16.36	34.77
	710.0	23790	V	20.14	3.37	-2.60	20.91	34.77
			H	14.66	3.37	-2.60	15.43	34.77
	711.0	23800	V	20.07	3.37	-2.60	20.84	34.77
			H	14.19	3.36	-2.60	14.95	34.77
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	19.98	3.36	-2.60	20.74	34.77
			H	11.40	3.35	-2.61	12.14	34.77
	710.0	23790	V	20.05	3.36	-2.61	**20.80**	34.77
			H	10.96	3.35	-2.61	11.70	34.77
	711.0	23800	V	20.03	3.35	-2.61	20.77	34.77
			H	9.83	3.35	-2.61	10.57	34.77
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	21.16	3.37	-2.60	21.93	34.77
			H	16.27	3.37	-2.60	17.04	34.77
	710.0	23790	V	20.70	3.37	-2.60	21.46	34.77
			H	15.46	3.37	-2.60	16.23	34.77
	711.0	23800	V	21.43	3.37	-2.60	**22.20**	34.77
			H	14.93	3.37	-2.60	15.70	34.77
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	20.84	3.36	-2.60	**21.59**	34.77
			H	13.08	3.35	-2.61	13.82	34.77
	710.0	23790	V	20.82	3.35	-2.61	21.57	34.77
			H	11.80	3.35	-2.61	12.55	34.77
	711.0	23800	V	20.64	3.35	-2.61	21.38	34.77
			H	11.16	3.35	-2.61	11.91	34.77

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 25 BW: 1.4M QPSK RB: 1,0	1850.7	26047	V	28.30	4.84	-4.49	**28.65**	33.00
			H	20.46	4.84	-4.49	20.81	33.00
	1882.5	26365	V	28.12	4.79	-4.53	28.38	33.00
			H	18.24	4.79	-4.53	18.50	33.00
	1914.3	26683	V	27.96	4.74	-4.57	28.13	33.00
			H	17.54	4.74	-4.57	17.71	33.00
BAND 25 BW: 1.4M QPSK RB: 1,5	1850.7	26047	V	28.94	4.84	-4.49	29.29	33.00
			H	20.33	4.84	-4.49	20.68	33.00
	1882.5	26365	V	29.07	4.79	-4.53	**29.33**	33.00
			H	18.12	4.79	-4.53	18.38	33.00
	1914.3	26683	V	27.96	4.74	-4.57	28.13	33.00
			H	17.41	4.74	-4.57	17.58	33.00
BAND 25 BW: 1.4M 16QAM RB: 1,0	1850.7	26047	V	29.86	4.84	-4.49	**30.21**	33.00
			H	21.55	4.84	-4.49	21.90	33.00
	1882.5	26365	V	29.12	4.79	-4.53	29.38	33.00
			H	19.27	4.79	-4.53	19.52	33.00
	1914.3	26683	V	28.48	4.74	-4.57	28.65	33.00
			H	18.20	4.74	-4.57	18.36	33.00
BAND 25 BW: 1.4M 16QAM RB: 1,5	1850.7	26047	V	29.12	4.84	-4.49	29.47	33.00
			H	21.33	4.84	-4.49	21.68	33.00
	1882.5	26365	V	29.91	4.79	-4.53	30.18	33.00
			H	19.00	4.79	-4.53	19.26	33.00
	1914.3	26683	V	30.07	4.74	-4.57	**30.24**	33.00
			H	18.15	4.74	-4.57	18.32	33.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 25 BW: 3M QPSK RB: 1,0	1851.5	26055	V	28.75	4.84	-4.49	29.10	33.00
			H	20.46	4.84	-4.49	20.81	33.00
	1882.5	26365	V	28.91	4.79	-4.53	**29.17**	33.00
			H	18.18	4.79	-4.53	18.44	33.00
	1913.5	26675	V	27.42	4.74	-4.57	27.59	33.00
			H	18.13	4.74	-4.57	18.30	33.00
BAND 25 BW: 3M QPSK RB: 1,14	1851.5	26055	V	28.73	4.84	-4.49	**29.08**	33.00
			H	19.90	4.84	-4.49	20.26	33.00
	1882.5	26365	V	28.68	4.79	-4.53	28.94	33.00
			H	17.84	4.79	-4.53	18.10	33.00
	1913.5	26675	V	27.97	4.74	-4.57	28.14	33.00
			H	17.58	4.74	-4.57	17.75	33.00
BAND 25 BW: 3M 16QAM RB: 1,0	1851.5	26055	V	29.19	4.84	-4.49	29.55	33.00
			H	21.27	4.84	-4.49	21.62	33.00
	1882.5	26365	V	29.65	4.79	-4.53	**29.92**	33.00
			H	19.03	4.79	-4.53	19.29	33.00
	1913.5	26675	V	27.64	4.74	-4.57	27.82	33.00
			H	18.43	4.74	-4.57	18.60	33.00
BAND 25 BW: 3M 16QAM RB: 1,14	1851.5	26055	V	29.39	4.84	-4.49	**29.74**	33.00
			H	20.58	4.84	-4.49	20.93	33.00
	1882.5	26365	V	29.43	4.79	-4.53	29.69	33.00
			H	18.55	4.79	-4.53	18.81	33.00
	1913.5	26675	V	28.65	4.74	-4.57	28.81	33.00
			H	18.43	4.74	-4.57	18.59	33.00

Remark：

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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
BAND 25 BW: 5M QPSK RB: 1,0	1852.5	26065	V	28.99	4.84	-4.49	**29.35**	33.00
			H	20.70	4.84	-4.49	21.05	33.00
	1882.5	26365	V	29.06	4.79	-4.53	29.32	33.00
			H	18.34	4.79	-4.53	18.60	33.00
	1912.5	26665	V	27.38	4.75	-4.56	27.56	33.00
			H	18.44	4.74	-4.57	18.61	33.00
BAND 25 BW: 5M QPSK RB: 1,24	1852.5	26065	V	28.28	4.84	-4.49	28.63	33.00
			H	19.86	4.84	-4.49	20.21	33.00
	1882.5	26365	V	28.87	4.79	-4.53	**29.12**	33.00
			H	17.58	4.79	-4.53	17.84	33.00
	1912.5	26665	V	27.94	4.74	-4.57	28.11	33.00
			H	17.77	4.74	-4.57	17.93	33.00
BAND 25 BW: 5M 16QAM RB: 1,0	1852.5	26065	V	29.11	4.84	-4.49	29.46	33.00
			H	21.46	4.84	-4.49	21.81	33.00
	1882.5	26365	V	29.83	4.70	-4.53	**30.00**	33.00
			H	19.14	4.79	-4.53	19.40	33.00
	1912.5	26665	V	27.86	4.75	-4.56	28.05	33.00
			H	18.91	4.75	-4.56	19.10	33.00
BAND 25 BW: 5M 16QAM RB: 1,24	1852.5	26065	V	28.70	4.84	-4.49	29.04	33.00
			H	20.29	4.84	-4.49	20.64	33.00
	1882.5	26365	V	29.62	4.79	-4.53	**29.88**	33.00
			H	18.35	4.79	-4.53	18.60	33.00
	1912.5	26665	V	28.67	4.74	-4.57	28.84	33.00
			H	18.48	4.74	-4.57	18.64	33.00

Remark：

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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
BAND 25 BW: 10M QPSK RB: 1,0	1855.0	26090	V	28.90	4.84	-4.49	29.25	33.00
			H	20.52	4.84	-4.49	20.87	33.00
	1882.5	26365	V	29.02	4.80	-4.52	**29.30**	33.00
			H	18.73	4.79	-4.53	18.99	33.00
	1910.0	26640	V	27.77	4.75	-4.56	27.96	33.00
			H	19.39	4.75	-4.56	19.58	33.00
BAND 25 BW: 10M QPSK RB: 1,49	1855.0	26090	V	27.94	4.83	-4.50	28.27	33.00
			H	19.23	4.83	-4.50	19.56	33.00
	1882.5	26365	V	28.93	4.78	-4.53	**29.18**	33.00
			H	17.39	4.78	-4.53	17.64	33.00
	1910.0	26640	V	28.06	4.74	-4.57	28.23	33.00
			H	17.88	4.74	-4.57	18.05	33.00
BAND 25 BW: 10M 16QAM RB: 1,0	1855.0	26090	V	29.41	4.84	-4.49	29.76	33.00
			H	20.84	4.84	-4.49	21.19	33.00
	1882.5	26365	V	29.52	4.79	-4.53	**29.78**	33.00
			H	19.18	4.79	-4.53	19.44	33.00
	1910.0	26640	V	28.25	4.75	-4.56	28.44	33.00
			H	19.69	4.75	-4.56	19.88	33.00
BAND 25 BW: 10M 16QAM RB: 1,49	1855.0	26090	V	28.14	4.83	-4.50	28.47	33.00
			H	19.51	4.83	-4.50	19.84	33.00
	1882.5	26365	V	29.45	4.78	-4.53	**29.70**	33.00
			H	18.33	4.78	-4.53	18.58	33.00
	1910.0	26640	V	28.64	4.74	-4.57	28.81	33.00
			H	18.51	4.74	-4.57	18.68	33.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 25 BW: 15M QPSK RB: 1,0	1857.5	26115	V	18.97	4.84	-4.49	19.32	33.00
			H	20.39	4.84	-4.49	20.74	33.00
	1882.5	26365	V	25.68	4.80	-4.52	**25.96**	33.00
			H	19.02	4.80	-4.52	19.29	33.00
	1907.5	26615	V	25.11	4.76	-4.56	25.31	33.00
			H	18.75	4.76	-4.56	18.95	33.00
BAND 25 BW: 15M QPSK RB: 1,74	1857.5	26115	V	25.10	4.82	-4.50	25.42	33.00
			H	19.55	4.82	-4.50	19.86	33.00
	1882.5	26365	V	25.73	4.78	-4.54	**25.97**	33.00
			H	17.48	4.78	-4.54	17.72	33.00
	1907.5	26615	V	24.77	4.74	-4.57	24.94	33.00
			H	17.95	4.74	-4.57	18.12	33.00
BAND 25 BW: 15M 16QAM RB: 1,0	1857.5	26115	V	27.70	4.84	-4.49	**28.05**	33.00
			H	21.01	4.84	-4.49	21.37	33.00
	1882.5	26365	V	26.50	4.80	-4.52	26.77	33.00
			H	19.99	4.80	-4.52	20.27	33.00
	1907.5	26615	V	25.38	4.76	-4.56	25.58	33.00
			H	19.05	4.76	-4.55	19.26	33.00
BAND 25 BW: 15M 16QAM RB: 1,74	1857.5	26115	V	25.72	4.82	-4.50	26.04	33.00
			H	20.14	4.82	-4.50	20.46	33.00
	1882.5	26365	V	26.45	4.78	-4.54	**26.69**	33.00
			H	18.23	4.78	-4.54	18.47	33.00
	1907.5	26615	V	25.56	4.74	-4.57	25.72	33.00
			H	18.67	4.74	-4.57	18.83	33.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 25 BW: 20M QPSK RB: 1,0	1860.0	26140	V	28.78	4.84	-4.49	**29.13**	33.00
			H	20.37	4.84	-4.49	20.72	33.00
	1882.5	26365	V	28.55	4.80	-4.52	28.83	33.00
			H	19.51	4.80	-4.52	19.79	33.00
	1905.0	26590	V	26.91	4.76	-4.55	27.12	33.00
			H	17.78	4.76	-4.55	17.99	33.00
BAND 25 BW: 20M QPSK RB: 1,99	1860.0	26140	V	27.83	4.81	-4.51	28.12	33.00
			H	19.90	4.81	-4.51	20.21	33.00
	1882.5	26365	V	28.17	4.78	-4.54	**28.41**	33.00
			H	17.40	4.77	-4.54	17.63	33.00
	1905.0	26590	V	27.93	4.74	-4.57	28.10	33.00
			H	18.09	4.74	-4.57	18.25	33.00
BAND 25 BW: 20M 16QAM RB: 1,0	1860.0	26140	V	29.29	4.84	-4.49	**29.64**	33.00
			H	20.74	4.84	-4.49	21.09	33.00
	1882.5	26365	V	29.21	4.80	-4.52	29.49	33.00
			H	20.00	4.80	-4.52	20.28	33.00
	1905.0	26590	V	27.27	4.77	-4.55	27.49	33.00
			H	18.15	4.76	-4.55	18.36	33.00
BAND 25 BW: 20M 16QAM RB: 1,99	1860.0	26140	V	28.73	4.82	-4.51	**29.03**	33.00
			H	20.85	4.81	-4.51	21.16	33.00
	1882.5	26365	V	28.67	4.77	-4.54	28.90	33.00
			H	17.89	4.77	-4.54	18.12	33.00
	1905.0	26590	V	28.63	4.74	-4.57	28.80	33.00
			H	18.73	4.74	-4.57	18.90	33.00

Remark：

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

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***Antenna Part No.: TG.30.8111 Apex**

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	25.02	3.45	-2.94	25.54	38.45
			H	18.70	3.45	-2.94	19.22	38.45
	836.6	190	V	25.46	3.46	-2.97	**25.94**	38.45
			H	17.63	3.46	-2.97	18.12	38.45
	848.8	251	V	24.68	3.47	-3.01	25.14	38.45
			H	16.67	3.47	-3.01	17.13	38.45

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
EDGE 850	824.2	128	V	24.97	3.45	-2.94	**25.48**	38.45
			H	15.95	3.45	-2.94	16.47	38.45
	836.6	190	V	24.58	3.46	-2.97	25.07	38.45
			H	15.81	3.46	-2.97	16.30	38.45
	848.8	251	V	24.37	3.47	-3.01	24.84	38.45
			H	14.45	3.47	-3.01	14.91	38.45

Remark：

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

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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	25.28	4.84	-4.49	25.63	33.01
			H	14.97	4.84	-4.49	15.33	33.01
	1880.0	661	V	24.86	4.79	-4.53	25.13	33.01
			H	12.90	4.79	-4.53	13.17	33.01
	1909.8	810	V	26.91	4.74	-4.57	**27.09**	33.01
			H	15.57	4.74	-4.57	15.74	33.01

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
EDGE 1900	1850.2	512	V	23.20	4.84	-4.49	23.56	33.01
			H	14.16	4.84	-4.49	14.52	33.01
	1880.0	661	V	23.73	4.79	-4.53	24.00	33.01
			H	11.14	4.79	-4.53	11.41	33.01
	1909.8	810	V	25.06	4.74	-4.57	**25.24**	33.01
			H	12.72	4.74	-4.57	12.90	33.01

Remark：

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

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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
WCDMA B2	1852.4	9262	V	21.88	4.84	-4.49	22.23	33.01
			H	9.60	4.84	-4.49	9.96	33.01
	1880.0	9400	V	19.82	4.79	-4.53	20.09	33.01
			H	7.05	4.79	-4.53	7.32	33.01
	1907.6	9538	V	22.35	4.75	-4.56	**22.54**	33.01
			H	8.26	4.75	-4.56	8.45	33.01

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
HSDPA B2	1852.4	9262	V	22.41	4.84	-4.49	22.76	33.01
			H	13.45	4.84	-4.49	13.79	33.01
	1880.0	9400	V	24.57	4.79	-4.53	**24.84**	33.01
			H	10.14	4.79	-4.53	10.41	33.01
	1907.6	9538	V	23.68	4.75	-4.56	23.87	33.01
			H	12.60	4.75	-4.56	12.79	33.01

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
HSUPA B2	1852.4	9262	V	23.31	4.84	-4.49	**23.66**	33.01
			H	10.61	4.84	-4.49	10.96	33.01
	1880.0	9400	V	21.84	4.79	-4.53	22.11	33.01
			H	8.47	4.79	-4.53	8.73	33.01
	1907.6	9538	V	23.32	4.75	-4.56	23.51	33.01
			H	11.30	4.75	-4.56	11.48	33.01

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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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
WCDMA B4	1712.4	1312	V	20.20	5.09	-4.29	21.00	30.00
			H	16.11	5.09	-4.29	16.91	30.00
	1732.6	1413	V	23.60	5.05	-4.31	**24.34**	30.00
			H	18.17	5.05	-4.31	18.91	30.00
	1752.6	1513	V	17.70	5.01	-4.37	18.35	30.00
			H	18.04	5.01	-4.37	18.68	30.00

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
HSDPA B4	1712.4	1312	V	23.89	5.09	-4.29	24.69	30.00
			H	20.12	5.08	-4.29	20.90	30.00
	1732.6	1413	V	25.13	5.05	-4.31	25.86	30.00
			H	23.26	5.05	-4.31	24.00	30.00
	1752.6	1513	V	25.80	5.01	-4.37	**26.45**	30.00
			H	21.65	5.01	-4.37	22.30	30.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B4	1712.4	1312	V	23.27	5.08	-4.29	24.06	30.00
			H	18.30	5.09	-4.29	19.09	30.00
	1732.6	1413	V	25.69	5.05	-4.31	**26.43**	30.00
			H	21.51	5.05	-4.31	22.25	30.00
	1752.6	1513	V	21.38	5.01	-4.37	22.02	30.00
			H	20.61	5.01	-4.37	21.26	30.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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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
WCDMA B5	826.4	4132	V	20.77	3.46	-2.94	**21.28**	38.45
			H	9.42	3.46	-2.94	9.93	38.45
	836.6	4183	V	20.46	3.46	-2.97	20.95	38.45
			H	8.62	3.46	-2.98	9.11	38.45
	846.6	4233	V	19.71	3.47	-3.00	20.18	38.45
			H	8.13	3.47	-3.00	8.60	38.45

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
HSDPA B5	826.4	4132	V	20.85	3.46	-2.95	**21.36**	38.45
			H	13.70	3.46	-2.94	14.22	38.45
	836.6	4183	V	19.89	3.46	-2.97	20.38	38.45
			H	13.22	3.46	-2.98	13.70	38.45
	846.6	4233	V	20.20	3.47	-3.00	20.66	38.45
			H	13.98	3.47	-3.00	14.45	38.45

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
HSUPA B5	826.4	4132	V	20.21	3.46	-2.95	20.72	38.45
			H	11.34	3.46	-2.95	11.85	38.45
	836.6	4183	V	20.22	3.46	-2.97	20.71	38.45
			H	10.73	3.46	-2.98	11.22	38.45
	846.6	4233	V	20.44	3.47	-3.00	**20.91**	38.45
			H	11.02	3.47	-3.00	11.49	38.45

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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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
CDMA BC0	824.7	1013	V	20.21	3.45	-2.94	20.72	38.45
			H	10.12	3.45	-2.94	10.63	38.45
	836.52	384	V	21.17	3.46	-2.97	**21.66**	38.45
			H	8.34	3.46	-2.97	8.83	38.45
	848.31	777	V	20.25	3.47	-3.00	20.71	38.45
			H	7.77	3.47	-3.00	8.23	38.45

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
EVDO 2000 BC0	824.7	1013	V	20.33	3.45	-2.94	**20.85**	38.45
			H	8.09	3.45	-2.94	8.60	38.45
	836.52	384	V	19.52	3.46	-2.97	20.01	38.45
			H	6.48	3.46	-2.97	6.96	38.45
	848.31	777	V	19.27	3.47	-3.00	19.73	38.45
			H	5.75	3.47	-3.00	6.21	38.45

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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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
CDMA BC1	1851.25	25	V	24.58	4.84	-4.49	24.94	33.00
			H	14.24	4.84	-4.49	14.60	33.00
	1880.0	600	V	24.78	4.79	-4.53	**25.05**	33.00
			H	16.07	4.79	-4.53	16.34	33.00
	1908.75	1175	V	24.42	4.75	-4.56	24.60	33.00
			H	15.16	4.75	-4.56	15.34	33.00

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
EVDO 2000 BC1	1851.25	25	V	23.90	4.84	-4.49	**24.26**	33.00
			H	10.81	4.84	-4.49	11.17	33.00
	1880.0	600	V	19.60	4.79	-4.53	19.87	33.00
			H	14.02	4.79	-4.53	14.29	33.00
	1908.75	1175	V	24.00	4.75	-4.56	24.18	33.00
			H	9.63	4.75	-4.56	9.81	33.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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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
CDMA BC10	817.9	476	V	20.49	3.45	-2.92	**21.02**	50.00
			H	8.47	3.45	-2.92	9.00	50.00
	820.5	580	V	20.04	3.45	-2.93	20.56	50.00
			H	8.10	3.45	-2.93	8.62	50.00
	823.1	684	V	19.81	3.45	-2.93	20.33	50.00
			H	7.67	3.45	-2.93	8.19	50.00

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
EVDO 2000 BC10	817.9	476	V	19.75	3.45	-2.92	**20.29**	50.00
			H	7.39	3.45	-2.92	7.93	50.00
	820.5	580	V	19.28	3.45	-2.93	19.81	50.00
			H	5.81	3.45	-2.92	6.34	50.00
	823.1	684	V	17.58	3.45	-2.93	18.11	50.00
			H	3.32	3.45	-2.93	3.84	50.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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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
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	14.14	4.84	-4.49	14.50	33.01
			H	8.95	4.84	-4.49	9.31	33.01
	1880.0	18900	V	17.80	4.80	-4.52	**18.08**	33.01
			H	14.73	4.80	-4.52	15.01	33.01
	1909.3	19193	V	11.42	4.75	-4.56	11.60	33.01
			H	10.78	4.75	-4.56	10.97	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	13.34	4.84	-4.49	13.70	33.01
			H	8.02	4.84	-4.49	8.37	33.01
	1880.0	18900	V	19.79	4.79	-4.53	**20.06**	33.01
			H	14.51	4.79	-4.53	14.77	33.01
	1909.3	19193	V	10.82	4.75	-4.56	11.01	33.01
			H	9.72	4.75	-4.56	9.91	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	14.71	4.84	-4.49	15.07	33.01
			H	9.79	4.84	-4.49	10.14	33.01
	1880.0	18900	V	18.38	4.80	-4.52	**18.65**	33.01
			H	15.23	4.80	-4.52	15.50	33.01
	1909.3	19193	V	11.71	4.75	-4.56	11.90	33.01
			H	11.21	4.75	-4.56	11.39	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	14.18	4.84	-4.49	14.53	33.01
			H	8.80	4.84	-4.49	9.16	33.01
	1880.0	18900	V	18.17	4.79	-4.53	**18.44**	33.01
			H	15.23	4.80	-4.52	15.50	33.01
	1909.3	19193	V	11.21	4.75	-4.56	11.40	33.01
			H	10.71	4.75	-4.56	10.89	33.01

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	18.97	4.84	-4.49	19.32	33.01
			H	12.88	4.84	-4.49	13.23	33.01
	1880.0	18900	V	19.49	4.80	-4.52	**19.77**	33.01
			H	14.25	4.79	-4.53	14.51	33.01
	1908.5	19185	V	17.19	4.75	-4.56	17.38	33.01
			H	14.25	4.75	-4.56	14.44	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	19.66	4.84	-4.49	**20.01**	33.01
			H	12.23	4.84	-4.49	12.59	33.01
	1880.0	18900	V	18.92	4.79	-4.53	19.18	33.01
			H	14.07	4.79	-4.53	14.34	33.01
	1908.5	19185	V	17.71	4.75	-4.56	17.90	33.01
			H	14.65	4.75	-4.56	14.84	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	18.71	4.84	-4.49	19.06	33.01
			H	13.55	4.84	-4.49	13.90	33.01
	1880.0	18900	V	19.52	4.80	-4.52	**19.80**	33.01
			H	14.89	4.80	-4.52	15.16	33.01
	1908.5	19185	V	17.80	4.75	-4.56	17.99	33.01
			H	14.70	4.75	-4.56	14.88	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	19.30	4.84	-4.49	19.65	33.01
			H	12.93	4.84	-4.49	13.28	33.01
	1880.0	18900	V	19.59	4.79	-4.53	**19.85**	33.01
			H	14.85	4.79	-4.53	15.12	33.01
	1908.5	19185	V	18.44	4.75	-4.56	18.62	33.01
			H	14.95	4.75	-4.56	15.14	33.01

Remark：

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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
BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	19.38	4.84	-4.49	**19.73**	33.01
			H	13.06	4.84	-4.49	13.41	33.01
	1880.0	18900	V	18.94	4.79	-4.53	19.20	33.01
			H	13.93	4.79	-4.53	14.20	33.01
	1907.5	19175	V	17.04	4.75	-4.56	17.24	33.01
			H	14.18	4.75	-4.56	14.37	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	18.90	4.84	-4.49	**19.25**	33.01
			H	12.05	4.84	-4.49	12.40	33.01
	1880.0	18900	V	18.17	4.79	-4.53	18.43	33.01
			H	13.81	4.79	-4.53	14.08	33.01
	1907.5	19175	V	7.95	4.75	-4.56	8.13	33.01
			H	14.73	4.75	-4.56	14.91	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	18.77	4.84	-4.49	19.13	33.01
			H	13.58	4.84	-4.49	13.93	33.01
	1880.0	18900	V	19.78	4.79	-4.53	**20.05**	33.01
			H	14.54	4.79	-4.53	14.81	33.01
	1907.5	19175	V	17.40	4.75	-4.56	17.59	33.01
			H	14.63	4.75	-4.56	14.81	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	19.36	4.84	-4.49	**19.71**	33.01
			H	12.62	4.84	-4.49	12.97	33.01
	1880.0	18900	V	19.15	4.79	-4.53	19.42	33.01
			H	14.71	4.79	-4.53	14.97	33.01
	1907.5	19175	V	18.72	4.75	-4.56	18.90	33.01
			H	15.34	4.75	-4.56	15.53	33.01

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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
BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	18.97	4.84	-4.49	**19.32**	33.01
			H	12.72	4.84	-4.49	13.08	33.01
	1880.0	18900	V	18.06	4.80	-4.52	18.33	33.01
			H	12.37	4.80	-4.52	12.66	33.01
	1905.0	19150	V	17.96	4.76	-4.56	18.17	33.01
			H	15.18	4.76	-4.56	15.38	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	19.03	4.83	-4.50	**19.36**	33.01
			H	10.52	4.83	-4.50	10.85	33.01
	1880.0	18900	V	17.44	4.79	-4.53	17.70	33.01
			H	13.67	4.79	-4.53	13.93	33.01
	1905.0	19150	V	18.15	4.75	-4.56	18.34	33.01
			H	14.87	4.75	-4.56	15.05	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	19.09	4.84	-4.49	**19.44**	33.01
			H	12.97	4.84	-4.49	13.32	33.01
	1880.0	18900	V	18.37	4.80	-4.52	18.65	33.01
			H	12.71	4.80	-4.52	12.98	33.01
	1905.0	19150	V	18.77	4.76	-4.56	18.97	33.01
			H	15.78	4.76	-4.56	15.98	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	19.22	4.83	-4.5	**19.56**	33.01
			H	10.73	4.83	-4.5	11.06	33.01
	1880.0	18900	V	18.02	4.79	-4.53	18.27	33.01
			H	14.35	4.79	-4.53	14.61	33.01
	1905.0	19150	V	18.14	4.75	-4.56	18.32	33.01
			H	14.88	4.75	-4.56	15.06	33.01

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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
BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	18.80	4.84	-4.49	**19.14**	33.01
			H	12.83	4.84	-4.49	13.18	33.01
	1880.0	18900	V	17.15	4.81	-4.52	17.44	33.01
			H	11.03	4.80	-4.52	11.31	33.01
	1902.5	19125	V	7.14	4.76	-4.55	7.36	33.01
			H	14.82	4.77	-4.55	15.04	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	17.77	4.82	-4.50	18.09	33.01
			H	10.01	4.82	-4.50	10.33	33.01
	1880.0	18900	V	17.09	4.78	-4.53	17.34	33.01
			H	13.88	4.78	-4.54	14.13	33.01
	1902.5	19125	V	17.92	4.75	-4.56	**18.10**	33.01
			H	14.66	4.75	-4.56	14.85	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	18.93	4.84	-4.49	**19.28**	33.01
			H	12.86	4.84	-4.49	13.21	33.01
	1880.0	18900	V	17.50	4.81	-4.52	17.79	33.01
			H	11.41	4.80	-4.52	11.69	33.01
	1902.5	19125	V	17.95	4.77	-4.55	18.17	33.01
			H	15.31	4.77	-4.55	15.53	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	18.15	4.82	-4.50	**18.47**	33.01
			H	10.18	4.82	-4.50	10.50	33.01
	1880.0	18900	V	17.60	4.78	-4.54	17.85	33.01
			H	14.24	4.79	-4.53	14.49	33.01
	1902.5	19125	V	18.02	4.75	-4.56	18.20	33.01
			H	14.71	4.75	-4.56	14.90	33.01

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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
BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	18.80	4.84	-4.49	**19.16**	33.01
			H	12.73	4.84	-4.49	13.09	33.01
	1880.0	18900	V	17.80	4.81	-4.51	18.10	33.01
			H	11.10	4.81	-4.52	11.39	33.01
	1900.0	19100	V	17.33	4.77	-4.54	17.56	33.01
			H	14.77	4.77	-4.54	15.00	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	18.85	4.81	-4.51	**19.15**	33.01
			H	11.77	4.82	-4.51	12.08	33.01
	1880.0	18900	V	17.68	4.78	-4.54	17.92	33.01
			H	4.68	4.78	-4.54	4.92	33.01
	1900.0	19100	V	18.00	4.75	-4.56	18.19	33.01
			H	15.01	4.75	-4.56	15.20	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	19.04	4.84	-4.49	**19.39**	33.01
			H	12.82	4.84	-4.49	13.17	33.01
	1880.0	18900	V	17.96	4.81	-4.51	18.26	33.01
			H	11.35	4.81	-4.52	11.64	33.01
	1900.0	19100	V	17.81	4.77	-4.54	18.03	33.01
			H	15.36	4.78	-4.54	15.60	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	19.45	4.81	-4.51	**19.76**	33.01
			H	12.02	4.81	-4.51	12.32	33.01
	1880.0	18900	V	18.07	4.78	-4.54	18.31	33.01
			H	15.15	4.78	-4.54	15.40	33.01
	1900.0	19100	V	18.44	4.75	-4.56	18.63	33.01
			H	15.18	4.75	-4.56	15.37	33.01

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	19.30	5.09	-4.29	**20.09**	30.00
			H	16.46	5.09	-4.29	17.26	30.00
	1732.5	20175	V	18.16	5.05	-4.32	18.89	30.00
			H	17.71	5.05	-4.32	18.43	30.00
	1754.3	20393	V	18.32	5.01	-4.37	18.96	30.00
			H	16.24	5.01	-4.37	16.88	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	18.80	5.09	-4.29	**19.60**	30.00
			H	16.31	5.09	-4.29	17.11	30.00
	1732.5	20175	V	17.99	5.05	-4.32	18.71	30.00
			H	17.51	5.04	-4.32	18.24	30.00
	1754.3	20393	V	17.96	5.01	-4.37	18.61	30.00
			H	15.94	5.01	-4.37	16.58	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	18.95	5.09	-4.29	**19.74**	30.00
			H	17.26	5.09	-4.29	18.06	30.00
	1732.5	20175	V	18.26	5.05	-4.32	18.99	30.00
			H	17.83	5.05	-4.32	18.56	30.00
	1754.3	20393	V	19.03	5.01	-4.37	19.67	30.00
			H	16.94	5.01	-4.37	17.58	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	19.45	5.09	-4.29	**20.25**	30.00
			H	16.89	5.08	-4.29	17.68	30.00
	1732.5	20175	V	18.15	5.05	-4.32	18.88	30.00
			H	17.61	5.05	-4.31	18.35	30.00
	1754.3	20393	V	18.53	5.01	-4.37	19.17	30.00
			H	16.41	5.01	-4.37	17.06	30.00

Remark：

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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
BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	19.59	5.09	-4.29	**20.39**	30.00
			H	16.54	5.09	-4.29	17.34	30.00
	1732.5	20175	V	17.98	5.05	-4.31	18.72	30.00
			H	17.98	5.05	-4.31	18.71	30.00
	1753.5	20385	V	18.61	5.01	-4.37	19.25	30.00
			H	17.09	5.01	-4.37	17.73	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	19.00	5.09	-4.29	**19.80**	30.00
			H	16.56	5.09	-4.29	17.36	30.00
	1732.5	20175	V	17.52	5.04	-4.32	18.24	30.00
			H	17.36	5.04	-4.32	18.09	30.00
	1753.5	20385	V	17.21	5.01	-4.37	17.85	30.00
			H	15.80	5.01	-4.37	16.44	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	19.36	5.09	-4.29	**20.15**	30.00
			H	17.34	5.09	-4.29	18.14	30.00
	1732.5	20175	V	18.14	5.05	-4.31	18.87	30.00
			H	18.07	5.05	-4.32	18.80	30.00
	1753.5	20385	V	19.35	5.01	-4.37	19.98	30.00
			H	17.73	5.01	-4.37	18.37	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	19.37	5.09	-4.29	**20.17**	30.00
			H	16.63	5.09	-4.29	17.43	30.00
	1732.5	20175	V	17.55	5.05	-4.31	18.29	30.00
			H	17.40	5.04	-4.32	18.12	30.00
	1753.5	20385	V	17.83	5.01	-4.37	18.47	30.00
			H	16.46	5.01	-4.37	17.10	30.00

Remark：

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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
BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	18.65	5.09	-4.29	19.45	30.00
			H	16.67	5.09	-4.29	17.47	30.00
	1732.5	20175	V	18.46	5.05	-4.31	19.20	30.00
			H	18.47	5.05	-4.31	19.21	30.00
	1752.5	20375	V	19.69	5.01	-4.37	**20.33**	30.00
			H	18.13	5.01	-4.37	18.78	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	19.40	5.08	-4.29	**20.19**	30.00
			H	16.81	5.08	-4.29	17.60	30.00
	1732.5	20175	V	17.71	5.04	-4.32	18.43	30.00
			H	17.49	5.04	-4.32	18.21	30.00
	1752.5	20375	V	17.35	5.01	-4.37	17.99	30.00
			H	16.10	5.01	-4.37	16.74	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	19.51	5.09	-4.29	20.31	30.00
			H	17.56	5.09	-4.29	18.36	30.00
	1732.5	20175	V	19.68	5.05	-4.31	**20.42**	30.00
			H	18.65	5.05	-4.31	19.39	30.00
	1752.5	20375	V	19.51	5.01	-4.37	20.16	30.00
			H	18.82	5.01	-4.37	19.46	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	18.69	5.08	-4.29	**19.48**	30.00
			H	17.12	5.09	-4.29	17.91	30.00
	1732.5	20175	V	17.79	5.04	-4.32	18.50	30.00
			H	17.49	5.04	-4.32	18.21	30.00
	1752.5	20375	V	17.98	5.01	-4.37	18.62	30.00
			H	6.72	5.01	-4.37	7.37	30.00

Remark：

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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
BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	19.46	5.09	-4.29	**20.26**	30.00
			H	16.60	5.09	-4.29	17.39	30.00
	1732.0	20175	V	19.16	5.05	-4.31	19.91	30.00
			H	19.08	5.05	-4.31	19.82	30.00
	1750.0	20350	V	18.68	5.02	-4.35	19.35	30.00
			H	16.86	5.02	-4.35	17.53	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	18.90	5.08	-4.30	**19.68**	30.00
			H	17.44	5.08	-4.30	18.22	30.00
	1732.0	20175	V	18.42	5.04	-4.32	19.15	30.00
			H	17.80	5.04	-4.32	18.52	30.00
	1750.0	20350	V	17.75	5.01	-4.37	18.40	30.00
			H	16.21	5.01	-4.37	16.85	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	19.25	5.09	-4.29	**20.04**	30.00
			H	17.38	5.09	-4.29	18.18	30.00
	1732.0	20175	V	19.25	5.05	-4.31	20.00	30.00
			H	19.13	5.05	-4.31	19.87	30.00
	1750.0	20350	V	19.02	5.02	-4.35	19.69	30.00
			H	17.13	5.02	-4.35	17.80	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	19.12	5.08	-4.30	**19.90**	30.00
			H	17.68	5.08	-4.30	18.46	30.00
	1732.0	20175	V	18.99	5.04	-4.32	19.71	30.00
			H	18.34	5.04	-4.32	19.07	30.00
	1750.0	20350	V	18.35	5.01	-4.37	18.99	30.00
			H	16.76	5.01	-4.37	17.41	30.00

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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
BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	19.44	5.09	-4.29	**20.24**	30.00
			H	16.46	5.08	-4.29	17.25	30.00
	1732.5	20175	V	18.71	5.06	-4.30	19.46	30.00
			H	18.33	5.06	-4.30	19.09	30.00
	1747.5	20325	V	18.89	5.03	-4.34	19.59	30.00
			H	17.57	5.03	-4.34	18.26	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	18.32	5.07	-4.30	19.09	30.00
			H	17.60	5.07	-4.30	18.36	30.00
	1732.5	20175	V	19.23	5.04	-4.33	**19.94**	30.00
			H	18.25	5.04	-4.33	18.97	30.00
	1747.5	20325	V	17.78	5.01	-4.37	18.42	30.00
			H	16.44	5.01	-4.37	17.08	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	19.19	5.08	-4.29	19.99	30.00
			H	17.33	5.09	-4.29	18.13	30.00
	1732.5	20175	V	19.01	5.06	-4.30	19.76	30.00
			H	18.63	5.06	-4.30	19.38	30.00
	1747.5	20325	V	19.52	5.03	-4.34	**20.21**	30.00
			H	18.07	5.03	-4.34	18.76	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	18.60	5.07	-4.30	19.37	30.00
			H	17.87	5.07	-4.30	18.64	30.00
	1732.5	20175	V	19.61	5.04	-4.33	**20.32**	30.00
			H	18.64	5.04	-4.33	19.35	30.00
	1747.5	20325	V	18.27	5.01	-4.37	18.91	30.00
			H	16.93	5.01	-4.37	17.57	30.00

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	19.34	5.09	-4.29	**20.13**	30.00
			H	16.42	5.09	-4.29	17.22	30.00
	1732.5	20175	V	18.55	5.06	-4.30	19.31	30.00
			H	17.34	5.06	-4.30	18.10	30.00
	1745.0	20300	V	18.10	5.04	-4.33	18.81	30.00
			H	17.66	5.04	-4.33	18.37	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	19.05	5.06	-4.30	**19.81**	30.00
			H	18.83	5.06	-4.30	19.59	30.00
	1732.5	20175	V	18.83	5.03	-4.33	19.53	30.00
			H	17.32	5.04	-4.33	18.02	30.00
	1745.0	20300	V	17.85	5.01	-4.37	18.49	30.00
			H	16.44	5.01	-4.37	17.08	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	19.03	5.09	-4.29	**19.83**	30.00
			H	17.20	5.09	-4.29	18.00	30.00
	1732.5	20175	V	18.35	5.07	-4.30	19.12	30.00
			H	17.62	5.06	-4.30	18.39	30.00
	1745.0	20300	V	18.28	5.04	-4.33	18.99	30.00
			H	17.80	5.04	-4.33	18.52	30.00
BAND 4 BW: 15M 16QAM RB: 1,99	1720.0	20050	V	19.15	5.06	-4.30	19.90	30.00
			H	19.05	5.06	-4.30	19.81	30.00
	1732.5	20175	V	19.47	5.03	-4.34	**20.17**	30.00
			H	17.93	5.03	-4.34	18.62	30.00
	1745.0	20300	V	18.43	5.01	-4.37	19.07	30.00
			H	17.05	5.01	-4.37	17.69	30.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	15.02	3.46	-2.94	15.54	38.45
			H	10.95	3.46	-2.94	11.47	38.45
	836.5	20525	V	15.30	3.46	-2.97	**15.79**	38.45
			H	9.54	3.46	-2.97	10.03	38.45
	848.3	20643	V	13.62	3.47	-3.00	14.08	38.45
			H	6.50	3.47	-3.00	6.97	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	14.60	3.45	-2.94	15.12	38.45
			H	10.47	3.46	-2.95	10.98	38.45
	836.5	20525	V	15.14	3.46	-2.97	**15.63**	38.45
			H	9.77	3.46	-2.97	10.26	38.45
	848.3	20643	V	13.69	3.47	-3.00	14.15	38.45
			H	6.71	3.47	-3.00	7.18	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	15.82	3.46	-2.94	16.33	38.45
			H	11.90	3.46	-2.94	12.42	38.45
	836.5	20525	V	16.36	3.46	-2.97	**16.85**	38.45
			H	11.24	3.46	-2.97	11.74	38.45
	848.3	20643	V	15.17	3.47	-3.01	15.63	38.45
			H	8.35	3.47	-3.00	8.82	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	16.39	3.46	-2.95	**16.90**	38.45
			H	11.93	3.46	-2.94	12.44	38.45
	836.5	20525	V	16.21	3.46	-2.97	16.69	38.45
			H	10.93	3.46	-2.97	11.42	38.45
	848.3	20643	V	14.99	3.47	-3.00	15.45	38.45
			H	8.07	3.47	-3.00	8.54	38.45

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	14.05	3.46	-2.94	14.56	38.45
			H	10.82	3.46	-2.94	11.33	38.45
	836.5	20525	V	14.09	3.46	-2.97	**14.58**	38.45
			H	8.81	3.46	-2.97	9.30	38.45
	847.5	20635	V	13.57	3.47	-3.01	14.03	38.45
			H	4.79	3.47	-3.00	5.26	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	14.18	3.46	-2.94	14.69	38.45
			H	10.26	3.46	-2.94	10.77	38.45
	836.5	20525	V	13.92	3.46	-2.97	14.41	38.45
			H	8.03	3.46	-2.97	8.52	38.45
	847.5	20635	V	14.73	3.47	-3.00	**15.20**	38.45
			H	4.51	3.47	-3.01	4.98	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	15.97	3.46	-2.94	16.49	38.45
			H	12.45	3.46	-2.94	12.96	38.45
	836.5	20525	V	16.22	3.46	-2.97	16.71	38.45
			H	10.22	3.46	-2.97	10.71	38.45
	847.5	20635	V	16.59	3.47	-3.01	**17.05**	38.45
			H	6.79	3.47	-3.00	7.25	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	16.16	3.46	-2.94	**16.67**	38.45
			H	12.25	3.46	-2.94	12.76	38.45
	836.5	20525	V	15.69	3.46	-2.97	16.18	38.45
			H	9.56	3.46	-2.97	10.05	38.45
	847.5	20635	V	15.67	3.47	-3.00	16.14	38.45
			H	6.20	3.47	-3.01	6.66	38.45

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	13.80	3.46	-2.94	14.31	38.45
			H	10.61	3.46	-2.94	11.12	38.45
	836.5	20525	V	14.97	3.46	-2.97	**15.46**	38.45
			H	10.04	3.46	-2.97	10.54	38.45
	846.5	20625	V	13.66	3.46	-2.99	14.13	38.45
			H	7.14	3.46	-2.99	7.62	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	14.83	3.46	-2.95	**15.34**	38.45
			H	11.30	3.46	-2.95	11.81	38.45
	836.5	20525	V	14.18	3.46	-2.98	14.66	38.45
			H	8.48	3.46	-2.97	8.97	38.45
	846.5	20625	V	13.90	3.47	-3.00	14.36	38.45
			H	6.83	3.47	-3.00	7.30	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	15.64	3.46	-2.94	16.15	38.45
			H	12.48	3.46	-2.94	12.99	38.45
	836.5	20525	V	16.01	3.46	-2.96	**16.51**	38.45
			H	11.71	3.46	-2.96	12.21	38.45
	846.5	20625	V	15.94	3.46	-2.99	16.41	38.45
			H	9.44	3.46	-2.99	9.91	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	15.95	3.46	-2.95	**16.46**	38.45
			H	12.47	3.46	-2.95	12.98	38.45
	836.5	20525	V	15.46	3.46	-2.98	15.95	38.45
			H	9.73	3.46	-2.98	10.21	38.45
	846.5	20625	V	15.72	3.47	-3.00	16.18	38.45
			H	8.85	3.47	-3.00	9.32	38.45

Remark：

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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
BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	13.91	3.46	-2.95	14.42	38.45
			H	11.12	3.46	-2.94	11.63	38.45
	836.5	20525	V	14.64	3.46	-2.96	**15.14**	38.45
			H	11.26	3.46	-2.96	11.76	38.45
	844.0	20600	V	14.24	3.46	-2.99	14.72	38.45
			H	7.87	3.46	-2.99	8.35	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	15.88	3.46	-2.97	**16.37**	38.45
			H	10.54	3.46	-2.97	11.03	38.45
	836.5	20525	V	13.70	3.46	-2.98	14.18	38.45
			H	8.13	3.46	-2.98	8.61	38.45
	844.0	20600	V	13.48	3.47	-3.00	13.94	38.45
			H	7.27	3.47	-3.00	7.73	38.45
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	15.91	3.46	-2.95	16.42	38.45
			H	12.21	3.46	-2.95	12.73	38.45
	836.5	20525	V	16.13	3.46	-2.96	**16.62**	38.45
			H	11.77	3.46	-2.96	12.27	38.45
	844.0	20600	V	15.64	3.46	-2.98	16.13	38.45
			H	9.59	3.46	-2.99	10.06	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	-7.45	3.46	-2.95	-6.95	38.45
			H	12.31	3.46	-2.96	12.80	38.45
	836.5	20525	V	15.31	3.46	-2.98	15.79	38.45
			H	10.19	3.46	-2.98	10.67	38.45
	844.0	20600	V	15.58	3.47	-3.00	**16.04**	38.45
			H	8.56	3.47	-3.00	9.02	38.45

Remark：

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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
BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	18.18	3.37	-2.77	**18.78**	34.77
			H	6.89	3.38	-2.78	7.49	34.77
	782.0	23230	V	17.78	3.38	-2.78	18.38	34.77
			H	6.58	3.38	-2.78	7.18	34.77
	784.5	23255	V	17.52	3.39	-2.79	18.12	34.77
			H	6.49	3.39	-2.79	7.09	34.77
BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	17.96	3.38	-2.78	**18.56**	34.77
			H	6.63	3.38	-2.78	7.23	34.77
	782.0	23230	V	16.95	3.39	-2.79	17.55	34.77
			H	5.71	3.39	-2.79	6.31	34.77
	784.5	23255	V	17.62	3.40	-2.80	18.22	34.77
			H	5.66	3.40	-2.80	6.26	34.77
BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	17.64	3.37	-2.77	18.24	34.77
			H	8.38	3.38	-2.78	8.97	34.77
	782.0	23230	V	18.13	3.38	-2.78	**18.73**	34.77
			H	8.49	3.38	-2.78	9.09	34.77
	784.5	23255	V	17.84	3.39	-2.79	18.44	34.77
			H	7.86	3.39	-2.79	8.45	34.77
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	18.43	3.38	-2.78	**19.03**	34.77
			H	8.05	3.38	-2.78	8.65	34.77
	782.0	23230	V	17.76	3.39	-2.79	18.36	34.77
			H	7.55	3.39	-2.79	8.15	34.77
	784.5	23255	V	18.07	3.39	-2.80	18.67	34.77
			H	8.02	3.40	-2.80	8.62	34.77

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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
BAND 13 BW: 10M QPSK RB: 1,0	782.0	23230	V	11.99	3.38	-2.78	**12.59**	34.77
			H	6.94	3.38	-2.78	7.54	34.77
BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230	V	9.14	3.39	-2.80	**9.74**	34.77
			H	5.73	3.40	-2.80	6.32	34.77
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	18.47	3.38	-2.78	**19.07**	34.77
			H	16.42	3.38	-2.78	17.02	34.77
BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230	V	11.38	3.39	-2.8	**11.97**	34.77
			H	9.93	3.39	-2.8	10.53	34.77

Remark：

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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
BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	16.36	3.37	-2.60	**17.12**	34.77
			H	2.65	3.37	-2.60	3.42	34.77
	710.0	23790	V	15.72	3.36	-2.60	16.49	34.77
			H	2.23	3.36	-2.60	3.00	34.77
	713.5	23825	V	14.80	3.35	-2.61	15.54	34.77
			H	1.75	3.35	-2.61	2.50	34.77
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	16.20	3.37	-2.60	**16.97**	34.77
			H	2.67	3.37	-2.60	3.43	34.77
	710.0	23790	V	15.14	3.36	-2.60	15.90	34.77
			H	1.21	3.35	-2.61	1.95	34.77
	713.5	23825	V	15.00	3.35	-2.61	15.74	34.77
			H	0.65	3.35	-2.61	1.40	34.77
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	17.38	3.37	-2.60	18.14	34.77
			H	3.14	3.37	-2.60	3.90	34.77
	710.0	23790	V	17.41	3.36	-2.60	**18.17**	34.77
			H	3.97	3.36	-2.60	4.73	34.77
	713.5	23825	V	16.96	3.35	-2.61	17.71	34.77
			H	3.15	3.35	-2.61	3.90	34.77
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	16.72	3.37	-2.60	17.48	34.77
			H	3.12	3.37	-2.60	3.89	34.77
	710.0	23790	V	17.72	3.36	-2.60	**18.48**	34.77
			H	3.97	3.36	-2.60	4.74	34.77
	713.5	23825	V	16.55	3.35	-2.61	17.29	34.77
			H	3.18	3.35	-2.61	3.93	34.77

Remark：

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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
BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	16.15	3.37	-2.60	16.91	34.77
			H	1.91	3.37	-2.60	2.68	34.77
	710.0	23790	V	15.77	3.37	-2.60	16.53	34.77
			H	1.72	3.37	-2.60	2.48	34.77
	711.0	23800	V	16.42	3.36	-2.60	**17.19**	34.77
			H	2.37	3.37	-2.60	3.13	34.77
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	14.88	3.35	-2.61	15.62	34.77
			H	0.64	3.35	-2.61	1.38	34.77
	710.0	23790	V	15.46	3.35	-2.61	**16.20**	34.77
			H	1.05	3.35	-2.61	1.78	34.77
	711.0	23800	V	15.19	3.35	-2.61	15.93	34.77
			H	0.79	3.35	-2.61	1.53	34.77
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	17.57	3.37	-2.60	**18.33**	34.77
			H	3.39	3.37	-2.60	4.16	34.77
	710.0	23790	V	17.47	3.37	-2.60	18.24	34.77
			H	3.58	3.37	-2.60	4.35	34.77
	711.0	23800	V	16.87	3.37	-2.60	17.64	34.77
			H	4.13	3.37	-2.60	4.90	34.77
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	17.35	3.36	-2.60	**18.11**	34.77
			H	3.06	3.35	-2.61	3.80	34.77
	710.0	23790	V	16.99	3.36	-2.61	17.73	34.77
			H	2.57	3.35	-2.61	3.31	34.77
	711.0	23800	V	16.82	3.35	-2.61	17.56	34.77
			H	2.33	3.35	-2.61	3.07	34.77

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 25 BW: 1.4M QPSK RB: 1,0	1850.7	26047	V	25.61	4.84	-4.49	**25.97**	33.00
			H	14.88	4.84	-4.49	15.23	33.00
	1882.5	26365	V	25.02	4.79	-4.53	25.29	33.00
			H	15.51	4.79	-4.53	15.77	33.00
	1914.3	26683	V	23.55	4.74	-4.57	23.72	33.00
			H	10.50	4.74	-4.57	10.66	33.00
BAND 25 BW: 1.4M QPSK RB: 1,5	1850.7	26047	V	25.85	4.84	-4.49	**26.21**	33.00
			H	15.64	4.84	-4.49	15.99	33.00
	1882.5	26365	V	24.75	4.79	-4.53	25.02	33.00
			H	15.88	4.79	-4.53	16.14	33.00
	1914.3	26683	V	23.80	4.74	-4.57	23.97	33.00
			H	10.39	4.74	-4.57	10.56	33.00
BAND 25 BW: 1.4M 16QAM RB: 1,0	1850.7	26047	V	25.96	4.84	-4.49	**26.31**	33.00
			H	17.44	4.84	-4.49	17.80	33.00
	1882.5	26365	V	25.87	4.79	-4.53	26.12	33.00
			H	17.00	4.79	-4.53	17.26	33.00
	1914.3	26683	V	23.87	4.74	-4.57	24.04	33.00
			H	11.31	4.74	-4.57	11.47	33.00
BAND 25 BW: 1.4M 16QAM RB: 1,5	1850.7	26047	V	26.09	4.84	-4.49	**26.44**	33.00
			H	16.88	4.84	-4.49	17.24	33.00
	1882.5	26365	V	26.05	4.79	-4.53	26.30	33.00
			H	17.61	4.79	-4.53	17.86	33.00
	1914.3	26683	V	24.08	4.74	-4.57	24.25	33.00
			H	12.71	4.74	-4.57	12.88	33.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 25 BW: 3M QPSK RB: 1,0	1851.5	26055	V	22.73	4.84	-4.49	**23.08**	33.00
			H	14.51	4.84	-4.49	14.87	33.00
	1882.5	26365	V	21.93	4.79	-4.53	22.19	33.00
			H	14.98	4.79	-4.53	15.24	33.00
	1913.5	26675	V	20.80	4.74	-4.57	20.97	33.00
			H	12.42	4.74	-4.57	12.59	33.00
BAND 25 BW: 3M QPSK RB: 1,14	1851.5	26055	V	22.56	4.84	-4.49	**22.91**	33.00
			H	14.93	4.84	-4.49	15.29	33.00
	1882.5	26365	V	21.72	4.79	-4.53	21.98	33.00
			H	14.52	4.79	-4.53	14.78	33.00
	1913.5	26675	V	20.86	4.74	-4.57	21.03	33.00
			H	12.15	4.74	-4.57	12.32	33.00
BAND 25 BW: 3M 16QAM RB: 1,0	1851.5	26055	V	24.11	4.84	-4.49	**24.46**	33.00
			H	15.55	4.84	-4.49	15.90	33.00
	1882.5	26365	V	23.20	4.79	-4.53	23.46	33.00
			H	16.64	4.79	-4.53	16.91	33.00
	1913.5	26675	V	21.62	4.74	-4.57	21.79	33.00
			H	13.22	4.74	-4.57	13.39	33.00
BAND 25 BW: 3M 16QAM RB: 1,14	1851.5	26055	V	24.08	4.84	-4.49	**24.43**	33.00
			H	15.86	4.84	-4.49	16.21	33.00
	1882.5	26365	V	22.60	4.79	-4.53	22.86	33.00
			H	16.20	4.79	-4.53	16.46	33.00
	1913.5	26675	V	11.75	4.74	-4.57	11.92	33.00
			H	12.63	4.74	-4.57	12.80	33.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 25 BW: 5M QPSK RB: 1,0	1852.5	26065	V	22.59	4.84	-4.49	**22.95**	33.00
			H	14.18	4.84	-4.49	14.54	33.00
	1882.5	26365	V	21.76	4.79	-4.53	22.02	33.00
			H	15.17	4.80	-4.52	15.44	33.00
	1912.5	26665	V	21.71	4.75	-4.56	21.89	33.00
			H	13.30	4.75	-4.56	13.48	33.00
BAND 25 BW: 5M QPSK RB: 1,24	1852.5	26065	V	22.57	4.84	-4.49	**22.91**	33.00
			H	13.25	4.84	-4.49	13.60	33.00
	1882.5	26365	V	20.33	4.79	-4.53	20.59	33.00
			H	14.48	4.79	-4.53	14.74	33.00
	1912.5	26665	V	20.95	4.74	-4.57	21.11	33.00
			H	12.35	4.74	-4.57	12.51	33.00
BAND 25 BW: 5M 16QAM RB: 1,0	1852.5	26065	V	23.33	4.84	-4.49	23.68	33.00
			H	15.20	4.84	-4.49	15.55	33.00
	1882.5	26365	V	26.40	4.80	-4.52	**26.67**	33.00
			H	16.42	4.80	-4.53	16.69	33.00
	1912.5	26665	V	25.27	4.75	-4.56	25.45	33.00
			H	14.49	4.75	-4.56	14.67	33.00
BAND 25 BW: 5M 16QAM RB: 1,24	1852.5	26065	V	23.33	4.84	-4.49	**23.68**	33.00
			H	13.32	4.84	-4.49	13.67	33.00
	1882.5	26365	V	22.13	4.79	-4.53	22.39	33.00
			H	13.74	4.79	-4.53	14.00	33.00
	1912.5	26665	V	21.67	4.74	-4.57	21.83	33.00
			H	12.30	4.74	-4.57	12.46	33.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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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
BAND 25 BW: 10M QPSK RB: 1,0	1855.0	26090	V	22.09	4.84	-4.49	22.44	33.00
			H	14.74	4.84	-4.49	15.09	33.00
	1882.5	26365	V	22.27	4.79	-4.53	**22.54**	33.00
			H	13.82	4.79	-4.53	14.09	33.00
	1910.0	26640	V	21.62	4.75	-4.56	21.82	33.00
			H	13.56	4.75	-4.56	13.74	33.00
BAND 25 BW: 10M QPSK RB: 1,49	1855.0	26090	V	21.43	4.83	-4.50	**21.76**	33.00
			H	10.97	4.83	-4.50	11.30	33.00
	1882.5	26365	V	19.94	4.78	-4.53	20.19	33.00
			H	14.01	4.78	-4.53	14.26	33.00
	1910.0	26640	V	20.88	4.74	-4.57	21.04	33.00
			H	12.98	4.74	-4.57	13.15	33.00
BAND 25 BW: 10M 16QAM RB: 1,0	1855.0	26090	V	23.04	4.84	-4.49	23.39	33.00
			H	14.83	4.84	-4.49	15.18	33.00
	1882.5	26365	V	23.89	4.80	-4.52	**24.17**	33.00
			H	15.56	4.80	-4.52	15.84	33.00
	1910.0	26640	V	22.86	4.75	-4.56	23.06	33.00
			H	14.63	4.75	-4.56	14.83	33.00
BAND 25 BW: 10M 16QAM RB: 1,49	1855.0	26090	V	21.86	4.83	-4.50	**22.20**	33.00
			H	11.55	4.83	-4.50	11.88	33.00
	1882.5	26365	V	21.72	4.78	-4.53	21.97	33.00
			H	15.58	4.78	-4.53	15.83	33.00
	1910.0	26640	V	21.38	4.74	-4.57	21.55	33.00
			H	13.59	4.74	-4.57	13.75	33.00

Remark：

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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
BAND 25 BW: 15M QPSK RB: 1,0	1857.5	26115	V	23.13	4.84	-4.49	**23.48**	33.00
			H	20.01	4.84	-4.49	20.37	33.00
	1882.5	26365	V	22.77	4.80	-4.52	23.05	33.00
			H	16.89	4.80	-4.52	17.16	33.00
	1907.5	26615	V	22.31	4.76	-4.56	22.51	33.00
			H	19.76	4.76	-4.55	19.96	33.00
BAND 25 BW: 15M QPSK RB: 1,74	1857.5	26115	V	20.95	4.82	-4.50	21.27	33.00
			H	18.59	4.82	-4.50	18.91	33.00
	1882.5	26365	V	21.15	4.78	-4.54	21.40	33.00
			H	18.65	4.78	-4.54	18.89	33.00
	1907.5	26615	V	21.24	4.74	-4.57	**21.41**	33.00
			H	18.60	4.74	-4.57	18.77	33.00
BAND 25 BW: 15M 16QAM RB: 1,0	1857.5	26115	V	23.25	4.84	-4.49	23.60	33.00
			H	20.98	4.84	-4.49	21.33	33.00
	1882.5	26365	V	24.02	4.80	-4.52	24.30	33.00
			H	18.17	4.80	-4.52	18.45	33.00
	1907.5	26615	V	24.29	4.76	-4.56	**24.49**	33.00
			H	20.56	4.76	-4.56	20.76	33.00
BAND 25 BW: 15M 16QAM RB: 1,74	1857.5	26115	V	21.54	4.82	-4.50	21.86	33.00
			H	18.88	4.82	-4.50	19.20	33.00
	1882.5	26365	V	21.93	4.78	-4.54	**22.16**	33.00
			H	19.00	4.78	-4.54	19.24	33.00
	1907.5	26615	V	21.88	4.74	-4.57	22.04	33.00
			H	19.03	4.74	-4.57	19.19	33.00

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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
BAND 25 BW: 20M QPSK RB: 1,0	1860.0	26140	V	25.04	4.84	-4.49	**25.39**	33.00
			H	19.92	4.84	-4.49	20.28	33.00
	1882.5	26365	V	21.26	4.80	-4.52	21.55	33.00
			H	16.63	4.80	-4.52	16.92	33.00
	1905.0	26590	V	23.66	4.77	-4.55	23.88	33.00
			H	18.00	4.76	-4.55	18.22	33.00
BAND 25 BW: 20M QPSK RB: 1,99	1860.0	26140	V	20.76	4.81	-4.51	21.06	33.00
			H	17.51	4.81	-4.51	17.81	33.00
	1882.5	26365	V	23.25	4.78	-4.54	**23.48**	33.00
			H	17.70	4.78	-4.54	17.94	33.00
	1905.0	26590	V	21.80	4.74	-4.57	21.96	33.00
			H	17.91	4.74	-4.57	18.08	33.00
BAND 25 BW: 20M 16QAM RB: 1,0	1860.0	26140	V	25.31	4.84	-4.49	**25.66**	33.00
			H	20.43	4.84	-4.49	20.78	33.00
	1882.5	26365	V	21.44	4.80	-4.52	21.72	33.00
			H	16.99	4.81	-4.52	17.28	33.00
	1905.0	26590	V	23.72	4.77	-4.55	23.94	33.00
			H	18.71	4.77	-4.55	18.94	33.00
BAND 25 BW: 20M 16QAM RB: 1,99	1860.0	26140	V	20.91	4.81	-4.51	21.22	33.00
			H	18.35	4.81	-4.51	18.66	33.00
	1882.5	26365	V	22.84	4.78	-4.54	**23.08**	33.00
			H	18.10	4.78	-4.54	18.34	33.00
	1905.0	26590	V	21.82	4.74	-4.57	21.99	33.00
			H	18.39	4.74	-4.57	18.56	33.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

8.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53(g)(h) , §90.691(a)(1)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).

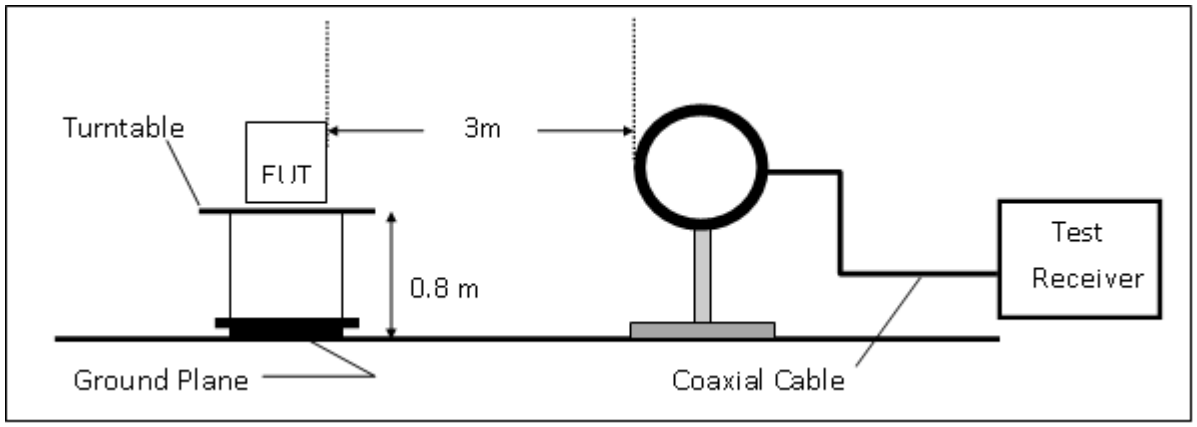
FCC §27.53 (m) (4) shall not be less than 55 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

§27.53 (c) (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

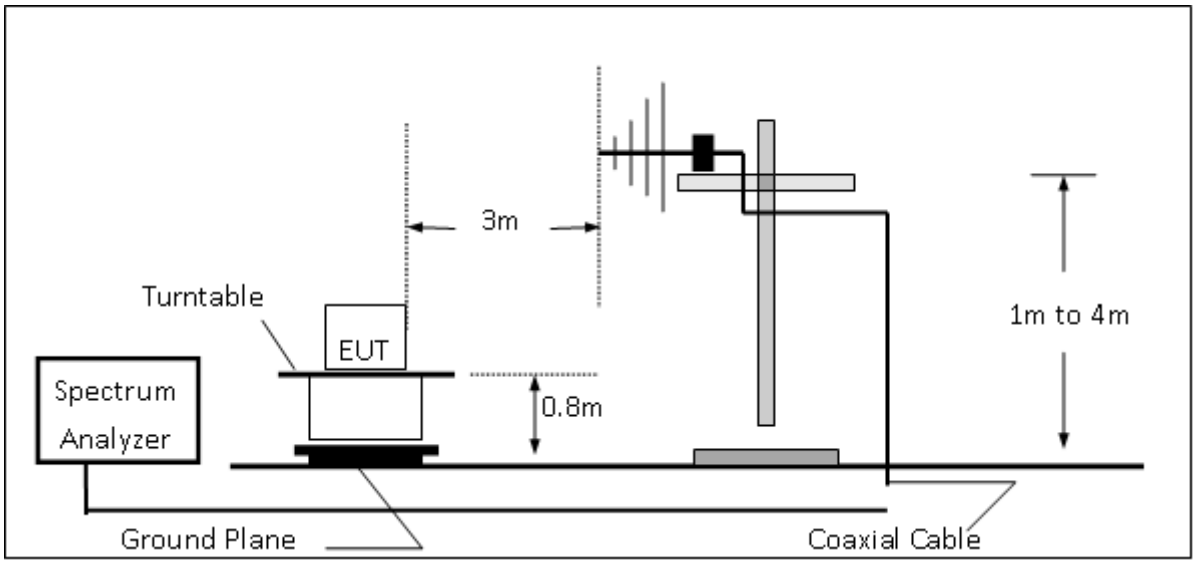
8.2. EUT Setup

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

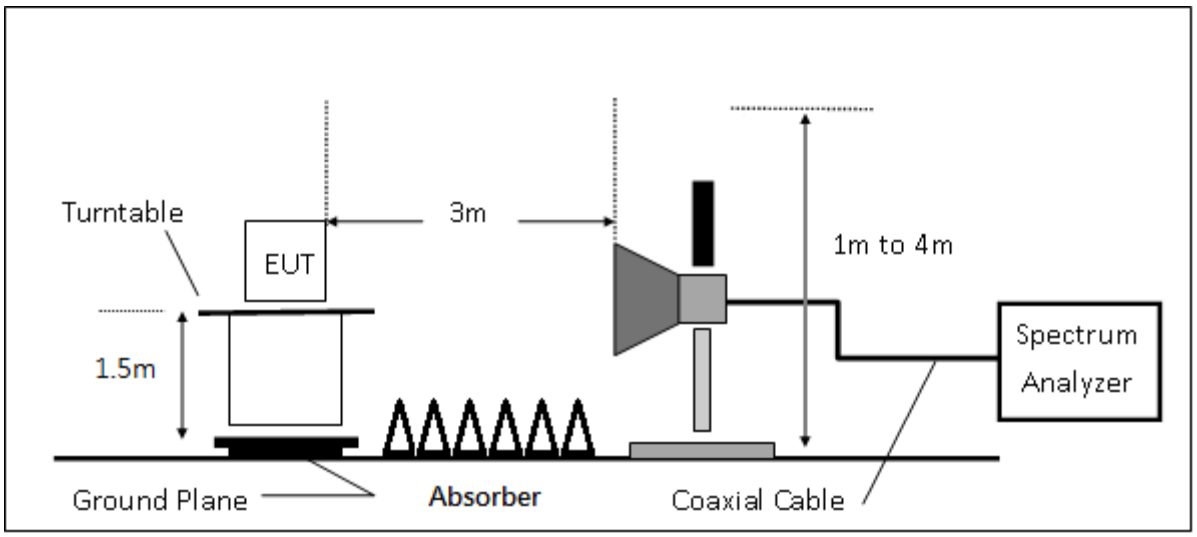


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(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



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



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8.3. 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.

ERP= S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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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8.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Spectrum Analyzer	R&S	FSV-30	101398	10/07/2014	10/06/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/31/2014	10/30/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016
Horn antenna	ETS.LINDGREN	3117	123991	12/19/2014	12/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/25/2015	07/24/2016
Network Analyze	Anritsu	MS4644A	1216312	05/23/2015	05/22/2016
Signal Generator	Agilent	E4438C	MY45093613	07/31/2015	07/30/2016
Pre-Amplifier	Agilent	8447D	1937A02834	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	060776	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/02/2015	01/01/2016
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/02/2015	01/01/2016
Filter 800-1000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1800-2000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1700-1800	Micro-Tronics	BRC15751	001	01/02/2015	01/01/2016
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2015	01/01/2016
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/01/2015	06/30/2016

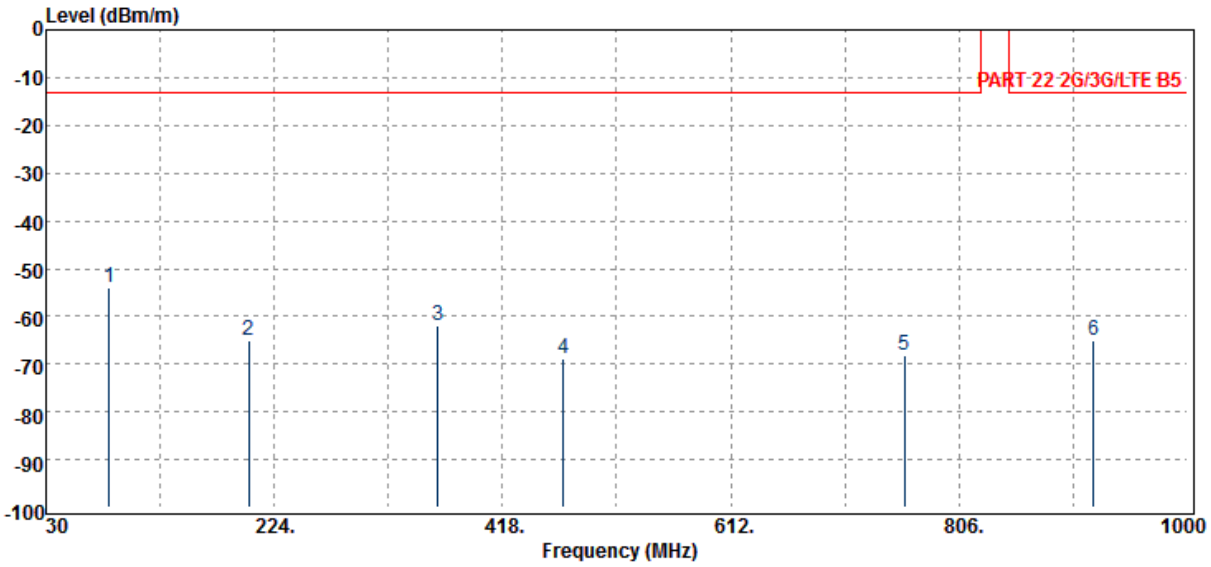
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8.5. Measurement Result (Below 1GHz):

***Antenna Part No.: GSA.8841.A.105111**

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

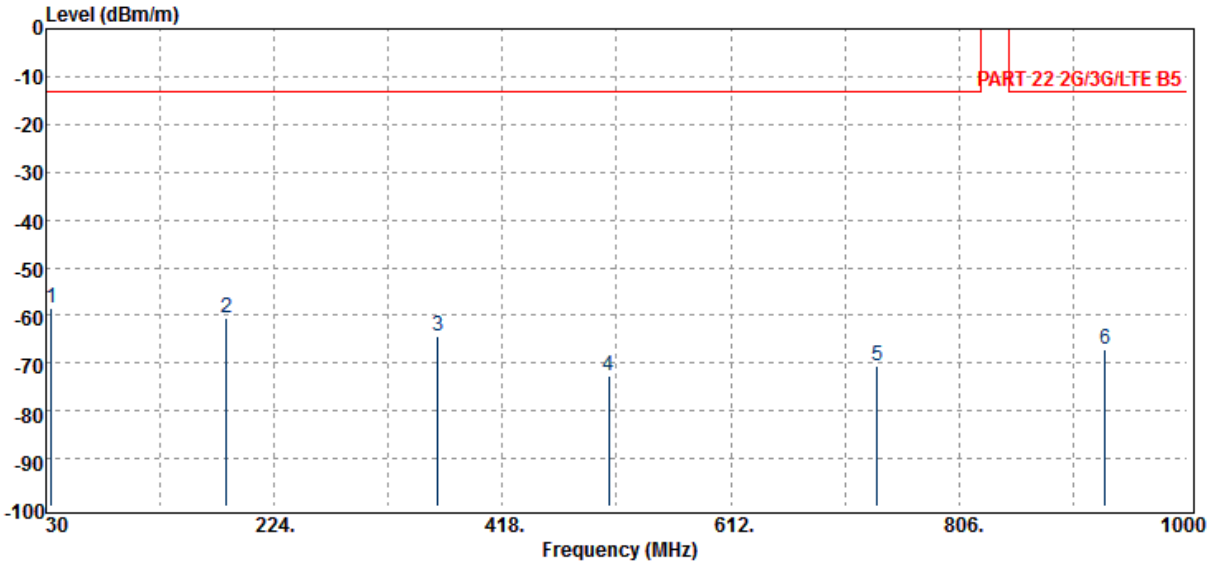
ARFCN	:CH 128	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:24 deg_C / 63 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
83.35	S	-54.00	-50.99	-1.95	-1.06	-13.00	-41.00
202.66	S	-64.98	-66.79	3.34	-1.54	-13.00	-51.98
362.71	S	-61.82	-63.59	3.72	-1.96	-13.00	-48.82
469.41	S	-68.86	-70.25	3.51	-2.12	-13.00	-55.86
759.44	S	-68.28	-68.88	3.31	-2.72	-13.00	-55.28
920.46	S	-65.17	-65.27	3.25	-3.16	-13.00	-52.17

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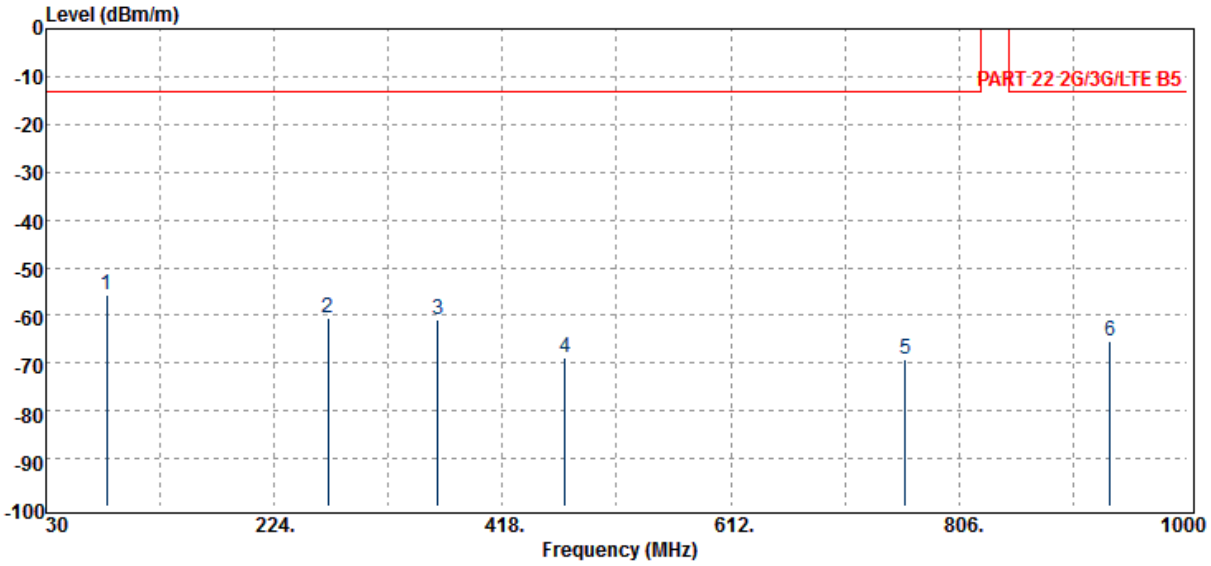
ARFCN	:CH 128	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-58.63	-44.18	-13.67	-0.78	-13.00	-45.63
183.26	S	-60.42	-60.45	1.54	-1.51	-13.00	-47.42
362.71	S	-64.53	-66.29	3.72	-1.96	-13.00	-51.53
508.21	S	-72.80	-74.19	3.73	-2.35	-13.00	-59.80
736.16	S	-70.60	-71.25	3.31	-2.66	-13.00	-57.60
930.16	S	-67.02	-67.09	3.25	-3.17	-13.00	-54.02

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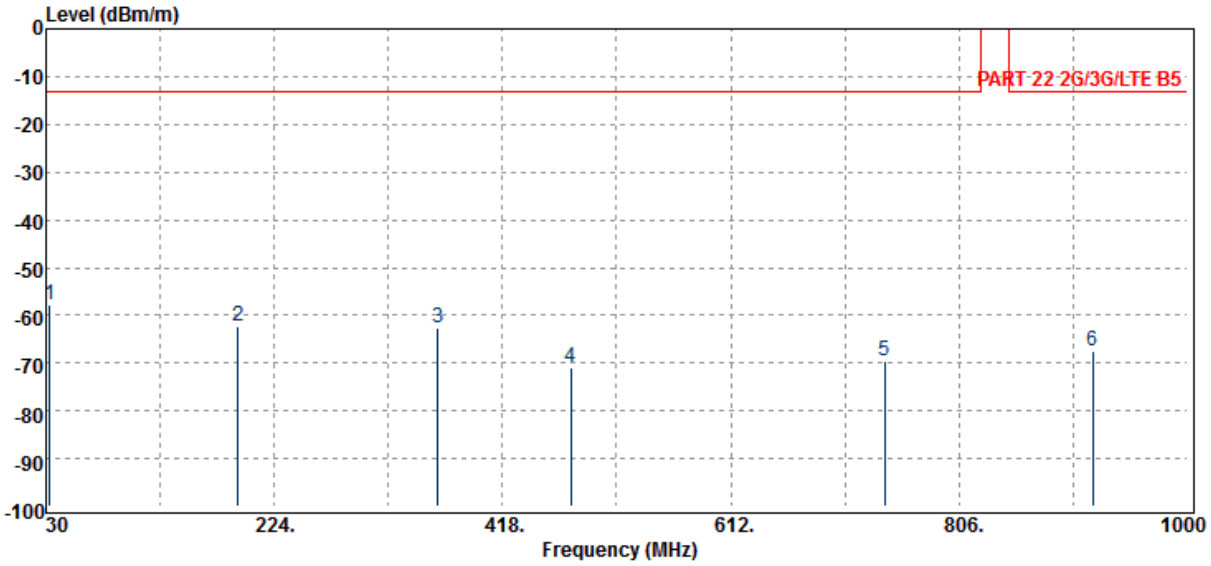
ARFCN	:CH 190	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-55.80	-52.32	-2.41	-1.06	-13.00	-42.80
269.59	S	-60.44	-62.36	3.61	-1.69	-13.00	-47.44
362.71	S	-60.78	-62.54	3.72	-1.96	-13.00	-47.78
471.35	S	-68.69	-70.09	3.53	-2.13	-13.00	-55.69
760.41	S	-69.20	-69.80	3.32	-2.72	-13.00	-56.20
934.04	S	-65.23	-65.30	3.24	-3.18	-13.00	-52.23

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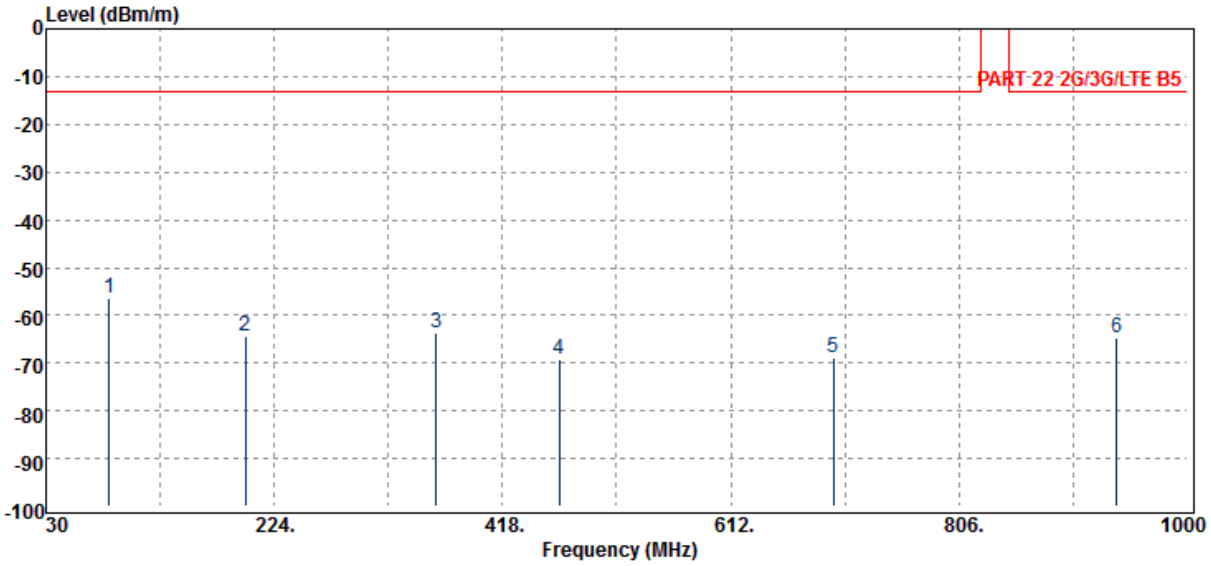
ARFCN	:CH 190	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-57.80	-42.90	-14.13	-0.76	-13.00	-44.80
192.96	S	-62.34	-63.64	2.82	-1.52	-13.00	-49.34
362.71	S	-62.72	-64.49	3.72	-1.96	-13.00	-49.72
476.20	S	-70.77	-72.18	3.57	-2.16	-13.00	-57.77
742.95	S	-69.40	-70.01	3.30	-2.68	-13.00	-56.40
919.49	S	-67.40	-67.49	3.25	-3.16	-13.00	-54.40

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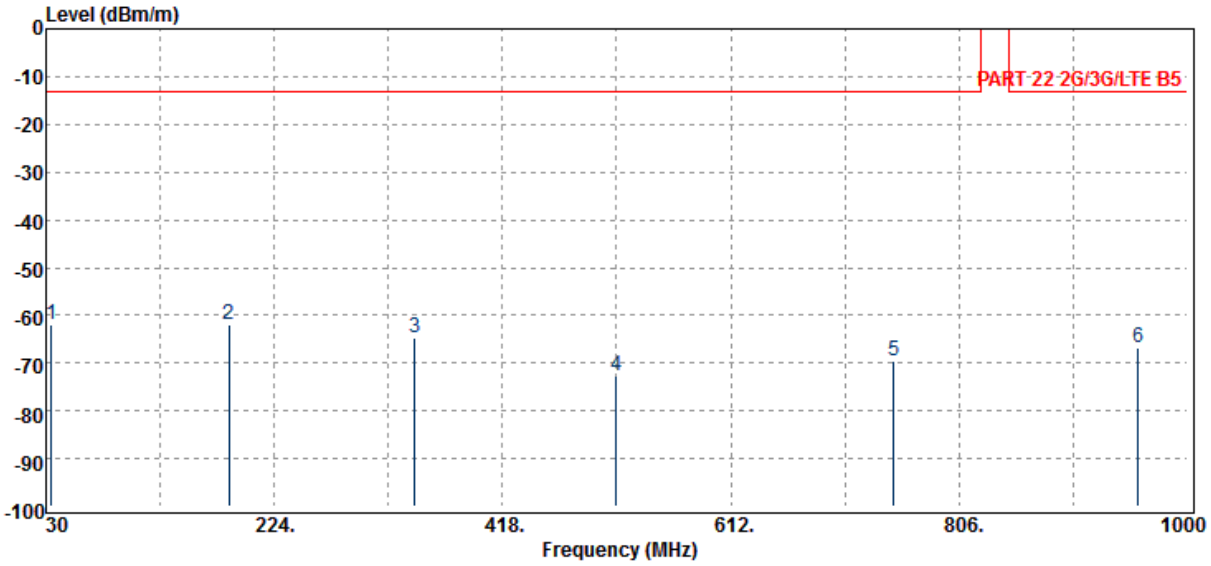
ARFCN	:CH 251	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
83.35	S	-56.34	-53.33	-1.95	-1.06	-13.00	-43.34
199.75	S	-64.44	-66.09	3.19	-1.53	-13.00	-51.44
361.74	S	-63.77	-65.54	3.73	-1.96	-13.00	-50.77
466.50	S	-69.27	-70.65	3.49	-2.11	-13.00	-56.27
699.30	S	-68.81	-69.59	3.39	-2.61	-13.00	-55.81
939.86	S	-64.77	-64.82	3.24	-3.19	-13.00	-51.77

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Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

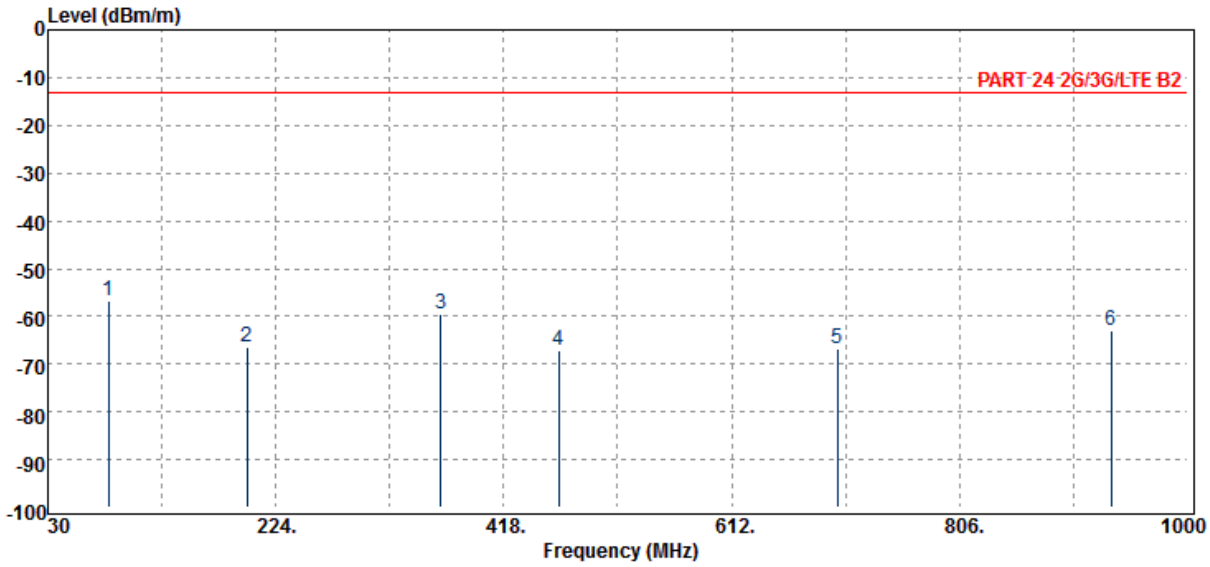


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-62.03	-47.58	-13.67	-0.78	-13.00	-49.03
185.20	S	-62.09	-62.44	1.86	-1.51	-13.00	-49.09
343.31	S	-64.61	-66.41	3.74	-1.94	-13.00	-51.61
515.00	S	-72.77	-74.09	3.71	-2.39	-13.00	-59.77
750.71	S	-69.55	-70.13	3.28	-2.70	-13.00	-56.55
958.29	S	-66.94	-66.42	2.68	-3.21	-13.00	-53.94

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

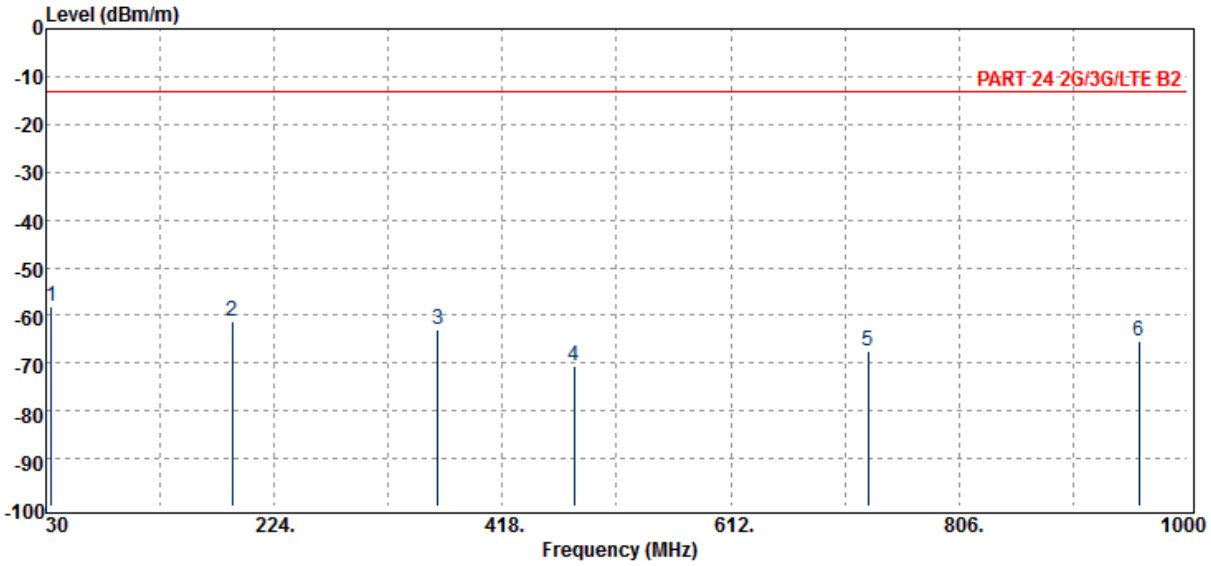
ARFCN	:CH 512	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-56.62	-55.30	-0.26	-1.06	-13.00	-43.62
199.75	S	-66.41	-70.22	5.34	-1.53	-13.00	-53.41
364.65	S	-59.47	-63.38	5.87	-1.96	-13.00	-46.47
464.56	S	-67.14	-70.65	5.62	-2.11	-13.00	-54.14
702.21	S	-66.80	-69.72	5.53	-2.61	-13.00	-53.80
935.01	S	-63.09	-65.30	5.39	-3.18	-13.00	-50.09

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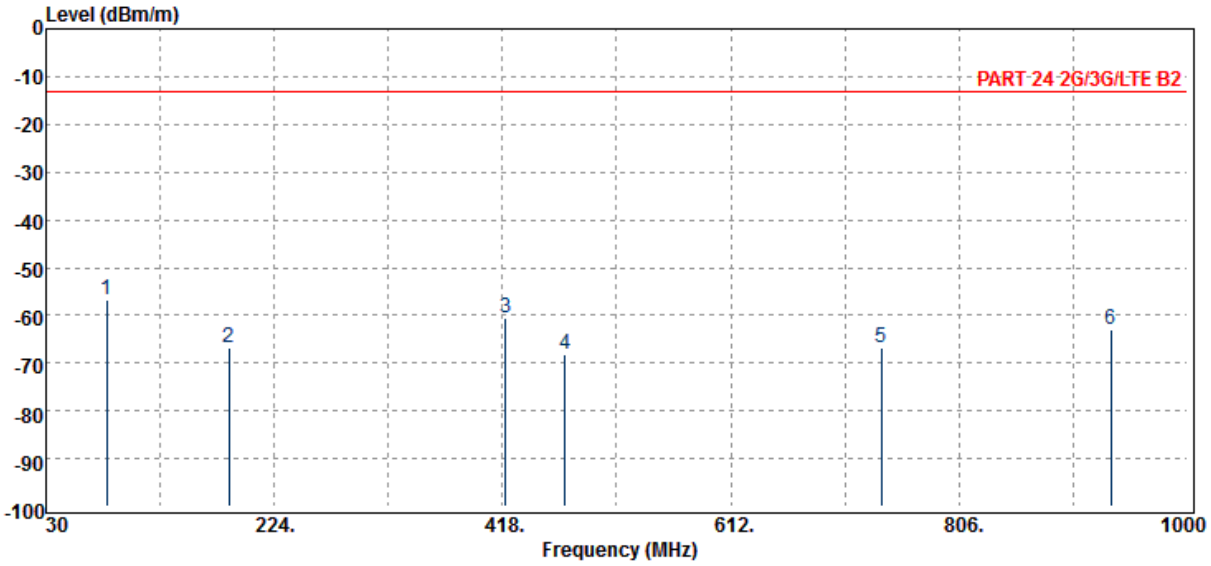
ARFCN	:CH 512	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-58.24	-45.94	-11.52	-0.78	-13.00	-45.24
188.11	S	-61.33	-64.31	4.50	-1.51	-13.00	-48.33
362.71	S	-63.03	-66.94	5.87	-1.96	-13.00	-50.03
479.11	S	-70.58	-74.15	5.74	-2.18	-13.00	-57.58
728.40	S	-67.55	-70.38	5.47	-2.64	-13.00	-54.55
959.26	S	-65.40	-66.95	4.76	-3.21	-13.00	-52.40

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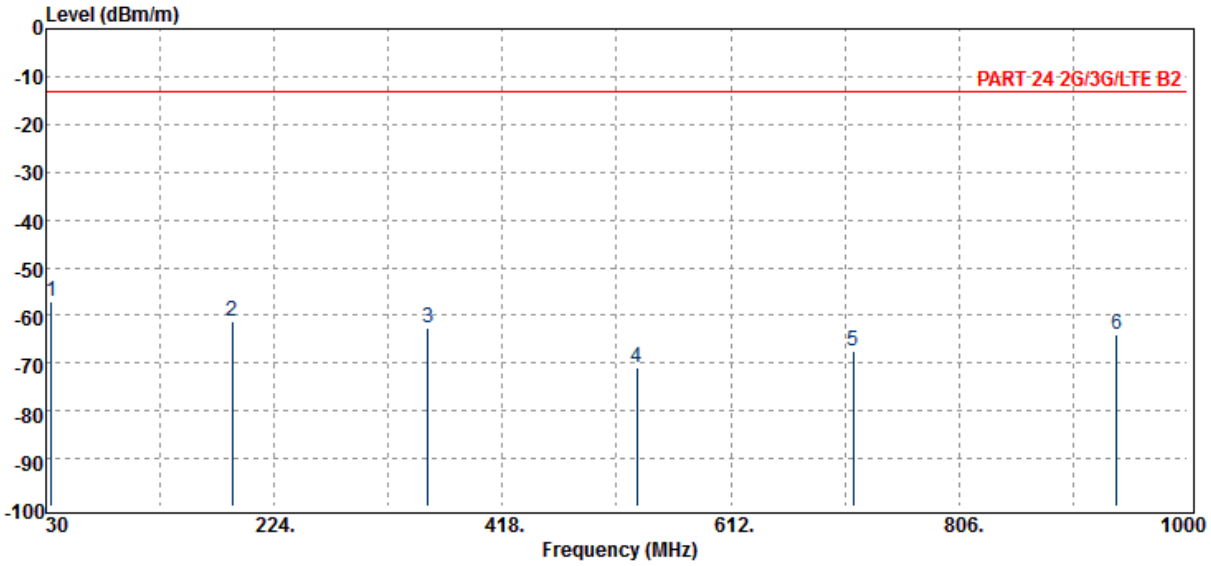
ARFCN	:CH 661	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-56.90	-55.58	-0.26	-1.06	-13.00	-43.90
185.20	S	-66.83	-69.34	4.01	-1.51	-13.00	-53.83
420.91	S	-60.70	-64.37	5.65	-1.98	-13.00	-47.70
471.35	S	-68.07	-71.61	5.68	-2.13	-13.00	-55.07
740.04	S	-66.75	-69.52	5.45	-2.67	-13.00	-53.75
935.01	S	-63.14	-65.35	5.39	-3.18	-13.00	-50.14

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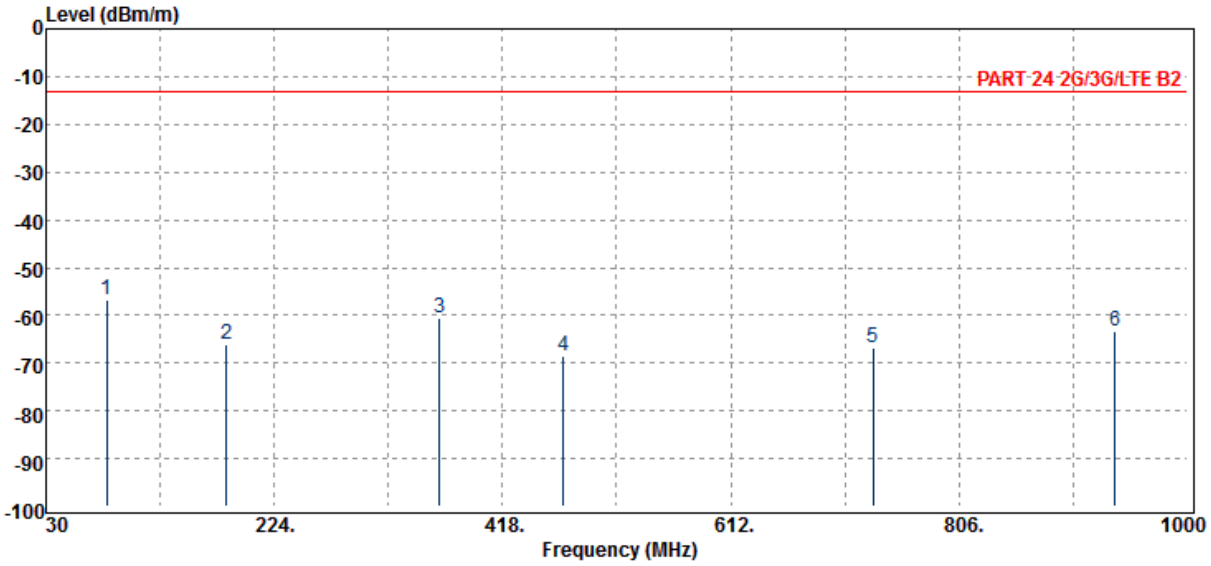
ARFCN	:CH 661	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-57.00	-44.69	-11.52	-0.78	-13.00	-44.00
188.11	S	-61.22	-64.20	4.50	-1.51	-13.00	-48.22
354.95	S	-62.52	-66.45	5.90	-1.97	-13.00	-49.52
532.46	S	-70.84	-74.16	5.80	-2.48	-13.00	-57.84
715.79	S	-67.39	-70.28	5.50	-2.61	-13.00	-54.39
939.86	S	-64.11	-66.31	5.39	-3.19	-13.00	-51.11

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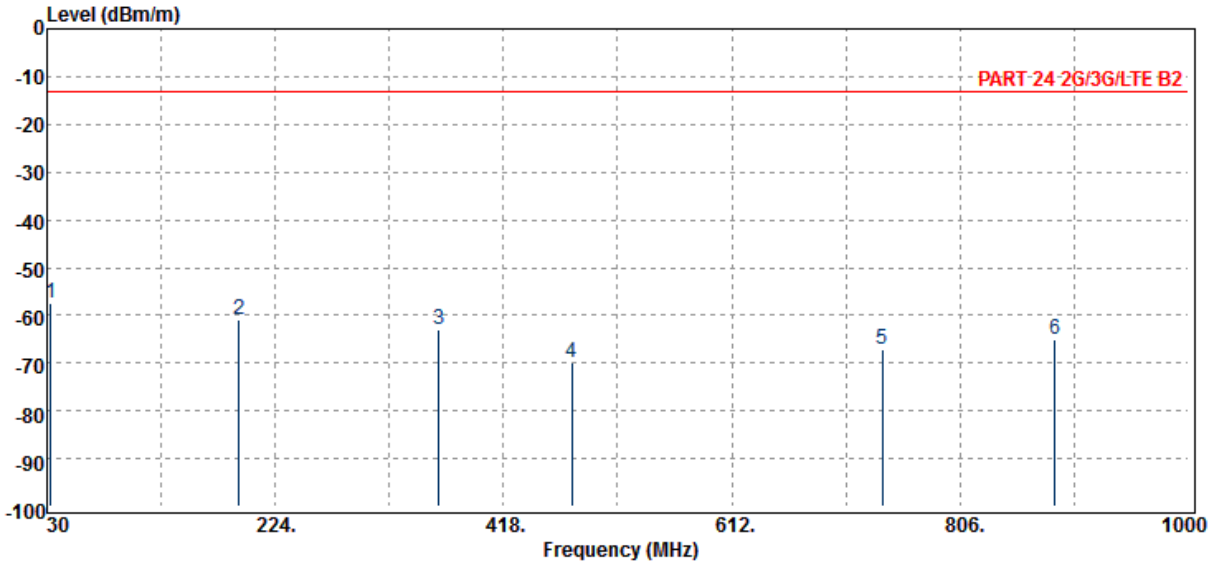
ARFCN	:CH 810	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-56.88	-55.56	-0.26	-1.06	-13.00	-43.88
183.26	S	-66.02	-68.21	3.69	-1.51	-13.00	-53.02
364.65	S	-60.71	-64.62	5.87	-1.96	-13.00	-47.71
469.41	S	-68.41	-71.94	5.66	-2.12	-13.00	-55.41
733.25	S	-66.74	-69.54	5.46	-2.66	-13.00	-53.74
938.89	S	-63.33	-65.54	5.39	-3.19	-13.00	-50.33

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ARFCN	:CH 810	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

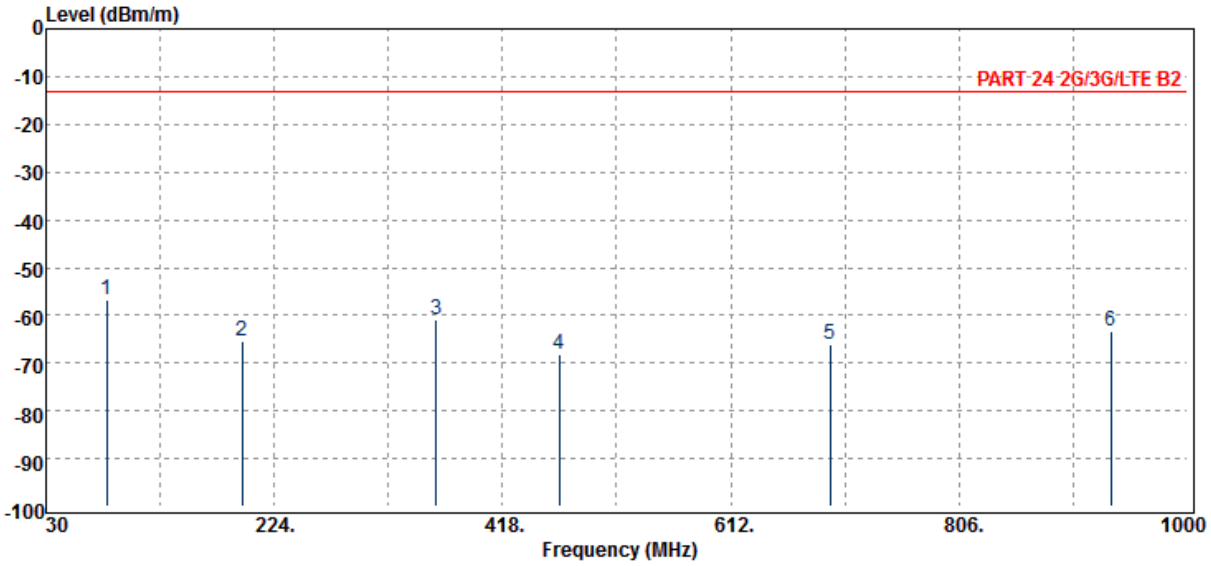


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-57.46	-44.72	-11.98	-0.76	-13.00	-44.46
192.96	S	-61.01	-64.46	4.97	-1.52	-13.00	-48.01
362.71	S	-62.96	-66.88	5.87	-1.96	-13.00	-49.96
476.20	S	-69.89	-73.45	5.72	-2.16	-13.00	-56.89
740.04	S	-67.16	-69.94	5.45	-2.67	-13.00	-54.16
886.51	S	-65.09	-67.45	5.47	-3.10	-13.00	-52.09

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Radiated Spurious Emission Measurement Result: HSDPA II Mode

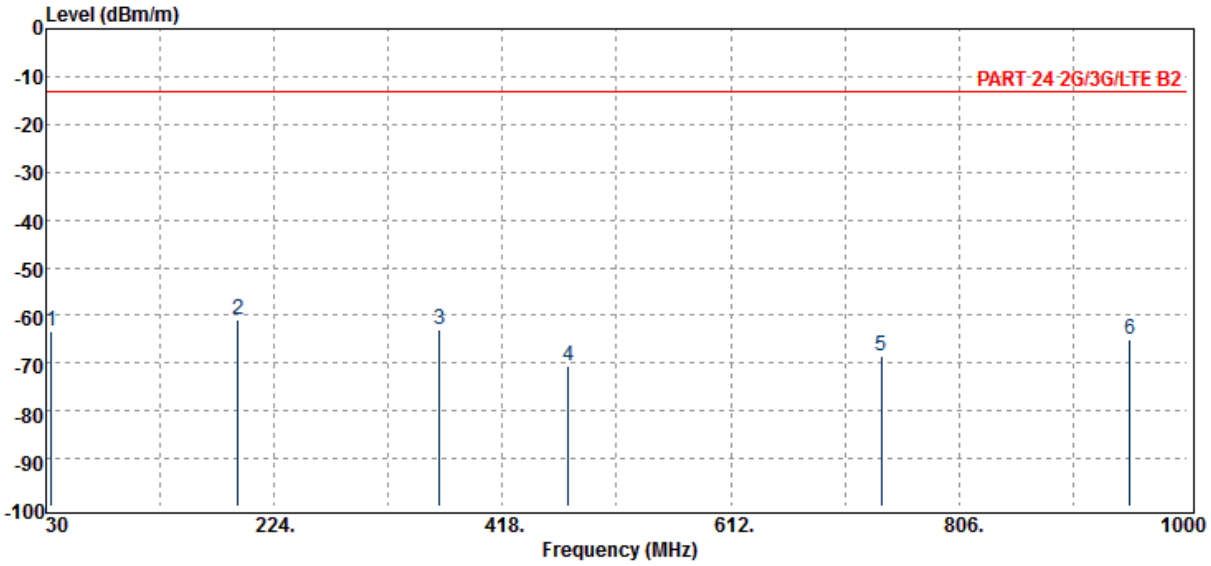
ARFCN	:CH 9262	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-56.90	-55.58	-0.26	-1.06	-13.00	-43.90
196.84	S	-65.41	-69.07	5.18	-1.53	-13.00	-52.41
361.74	S	-60.99	-64.91	5.88	-1.96	-13.00	-47.99
466.50	S	-68.28	-71.80	5.64	-2.11	-13.00	-55.28
696.39	S	-66.23	-69.16	5.55	-2.61	-13.00	-53.23
935.01	S	-63.18	-65.39	5.39	-3.18	-13.00	-50.18

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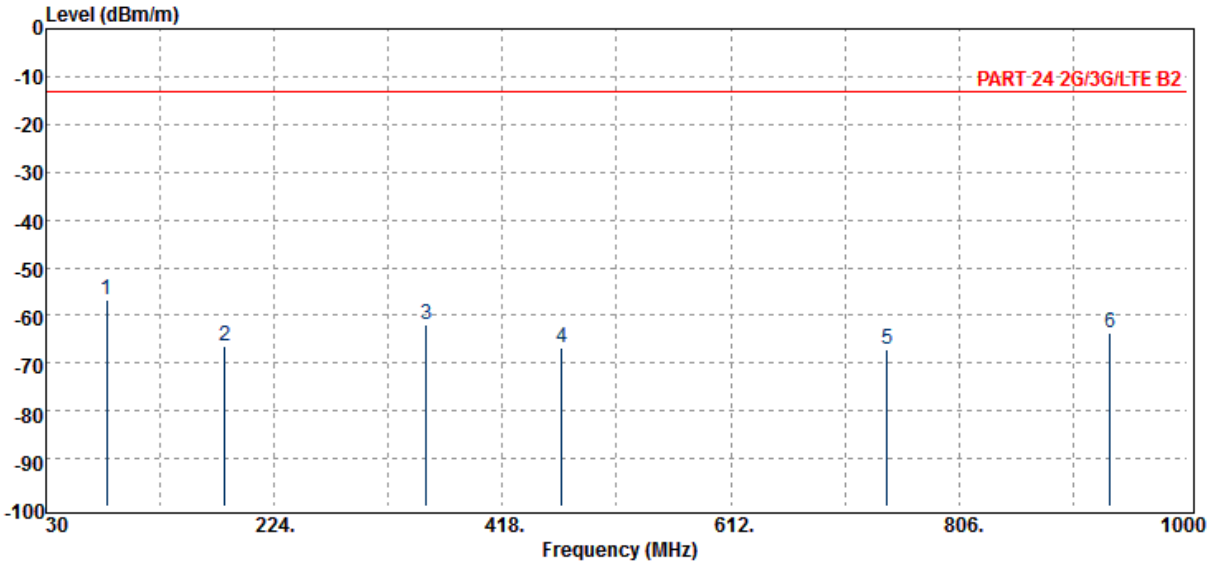
ARFCN	:CH 9262	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-63.15	-50.85	-11.52	-0.78	-13.00	-50.15
192.96	S	-60.98	-64.43	4.97	-1.52	-13.00	-47.98
364.65	S	-62.89	-66.79	5.87	-1.96	-13.00	-49.89
474.26	S	-70.66	-74.22	5.70	-2.15	-13.00	-57.66
740.04	S	-68.63	-71.41	5.45	-2.67	-13.00	-55.63
951.50	S	-65.11	-67.19	5.28	-3.20	-13.00	-52.11

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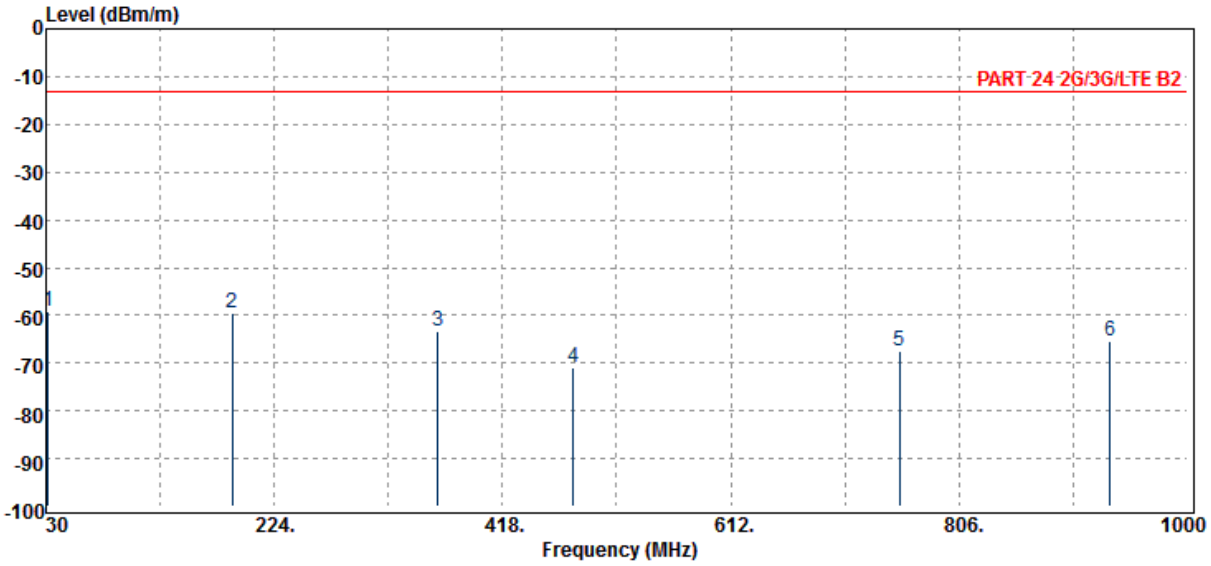
ARFCN	:CH 9400	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-56.59	-55.27	-0.26	-1.06	-13.00	-43.59
182.29	S	-66.47	-68.49	3.53	-1.50	-13.00	-53.47
353.01	S	-61.89	-65.83	5.90	-1.97	-13.00	-48.89
468.44	S	-66.86	-70.40	5.65	-2.12	-13.00	-53.86
744.89	S	-67.04	-69.79	5.44	-2.68	-13.00	-54.04
934.04	S	-63.60	-65.82	5.39	-3.18	-13.00	-50.60

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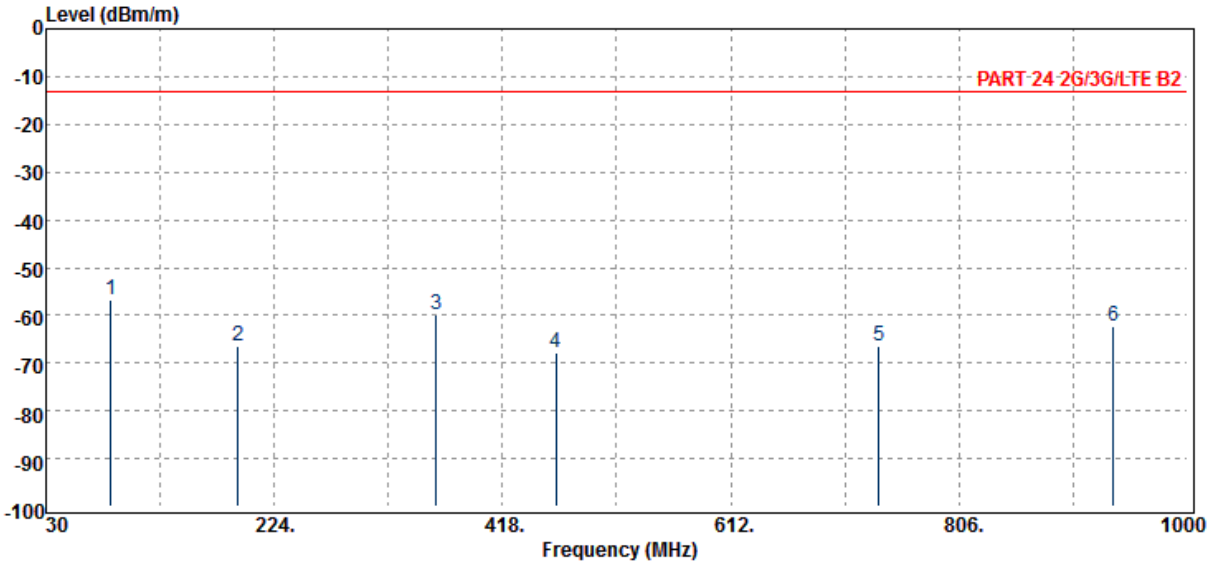
ARFCN	:CH 9400	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-59.21	-46.23	-12.22	-0.75	-13.00	-46.21
188.11	S	-59.66	-62.65	4.50	-1.51	-13.00	-46.66
362.71	S	-63.41	-67.32	5.87	-1.96	-13.00	-50.41
478.14	S	-71.01	-74.57	5.73	-2.17	-13.00	-58.01
755.56	S	-67.56	-70.30	5.45	-2.71	-13.00	-54.56
934.04	S	-65.46	-67.67	5.39	-3.18	-13.00	-52.46

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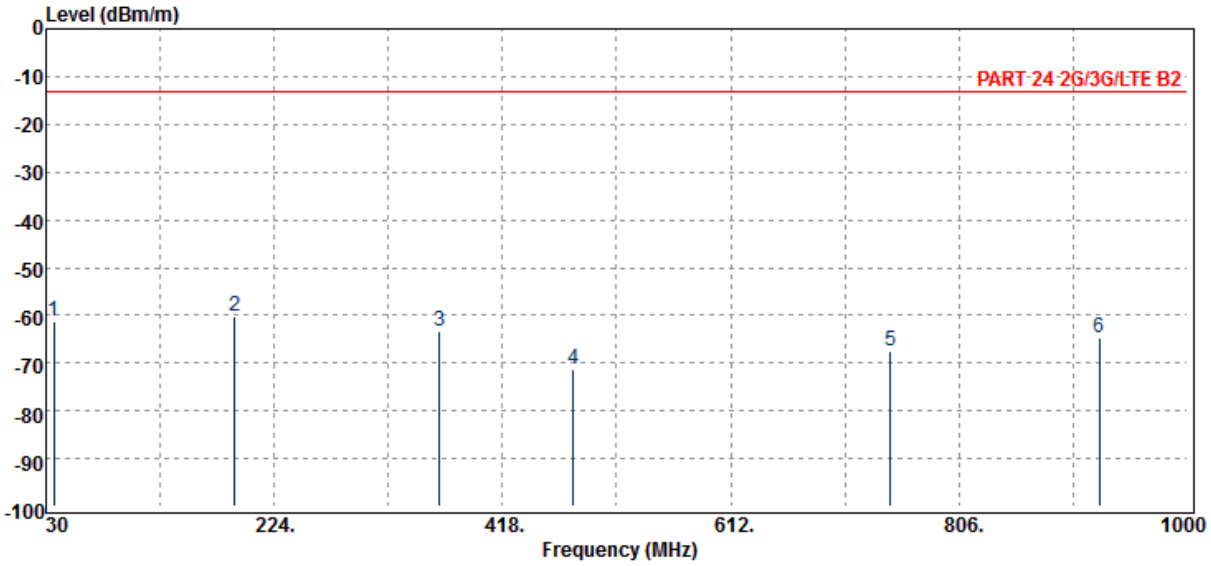
ARFCN	:CH 9538	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
85.29	S	-56.89	-56.47	0.65	-1.07	-13.00	-43.89
192.96	S	-66.43	-69.88	4.97	-1.52	-13.00	-53.43
361.74	S	-59.90	-63.82	5.88	-1.96	-13.00	-46.90
463.59	S	-67.71	-71.21	5.61	-2.10	-13.00	-54.71
738.10	S	-66.28	-69.06	5.45	-2.67	-13.00	-53.28
936.95	S	-62.40	-64.61	5.39	-3.18	-13.00	-49.40

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ARFCN	:CH 9538	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

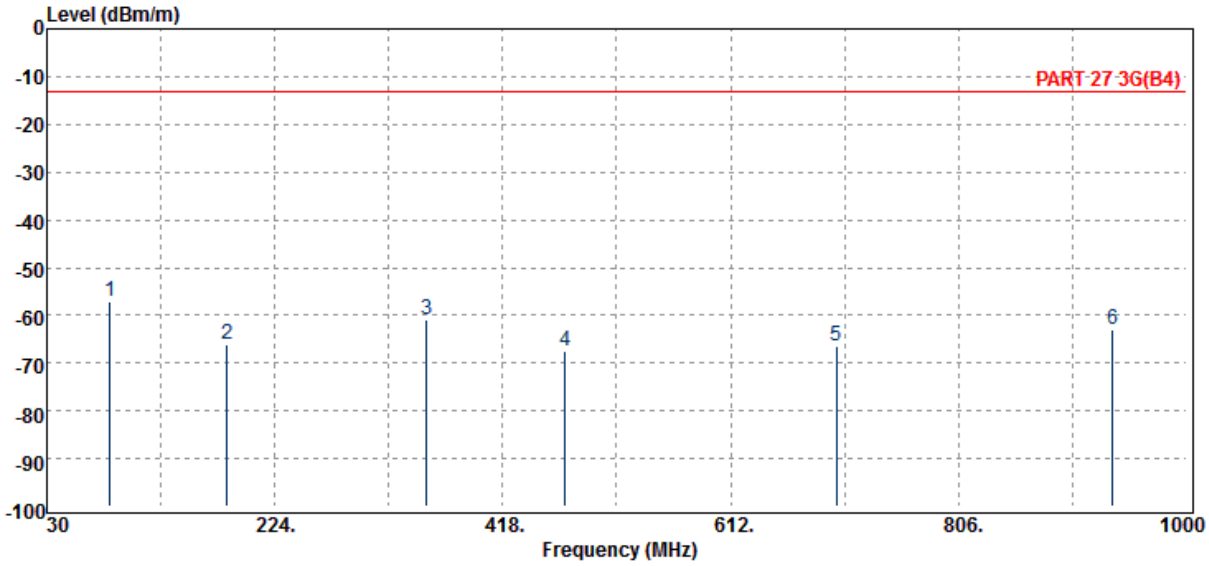


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
36.79	S	-61.38	-49.41	-11.17	-0.80	-13.00	-48.38
190.05	S	-60.23	-63.52	4.81	-1.52	-13.00	-47.23
364.65	S	-63.36	-67.27	5.87	-1.96	-13.00	-50.36
478.14	S	-71.45	-75.01	5.73	-2.17	-13.00	-58.45
747.80	S	-67.57	-70.32	5.44	-2.69	-13.00	-54.57
925.31	S	-64.62	-66.85	5.40	-3.17	-13.00	-51.62

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

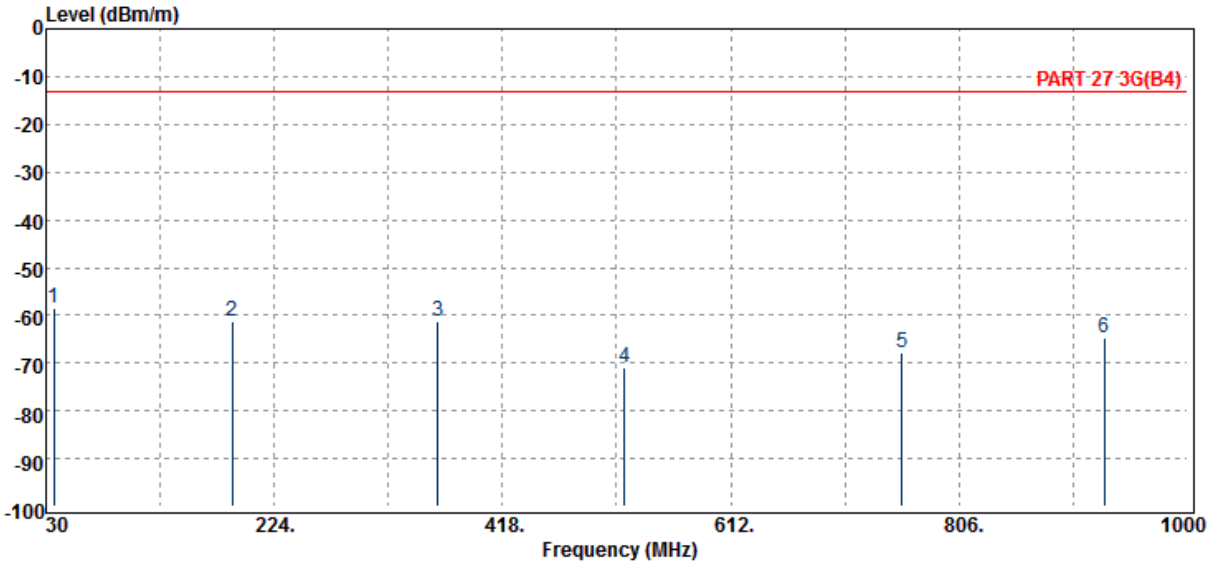
ARFCN	:CH 1312	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
83.35	S	-57.07	-56.20	0.20	-1.06	-13.00	-44.07
183.26	S	-65.96	-68.14	3.69	-1.51	-13.00	-52.96
353.01	S	-60.87	-64.80	5.90	-1.97	-13.00	-47.87
471.35	S	-67.48	-71.03	5.68	-2.13	-13.00	-54.48
702.21	S	-66.55	-69.47	5.53	-2.61	-13.00	-53.55
936.95	S	-62.83	-65.03	5.39	-3.18	-13.00	-49.83

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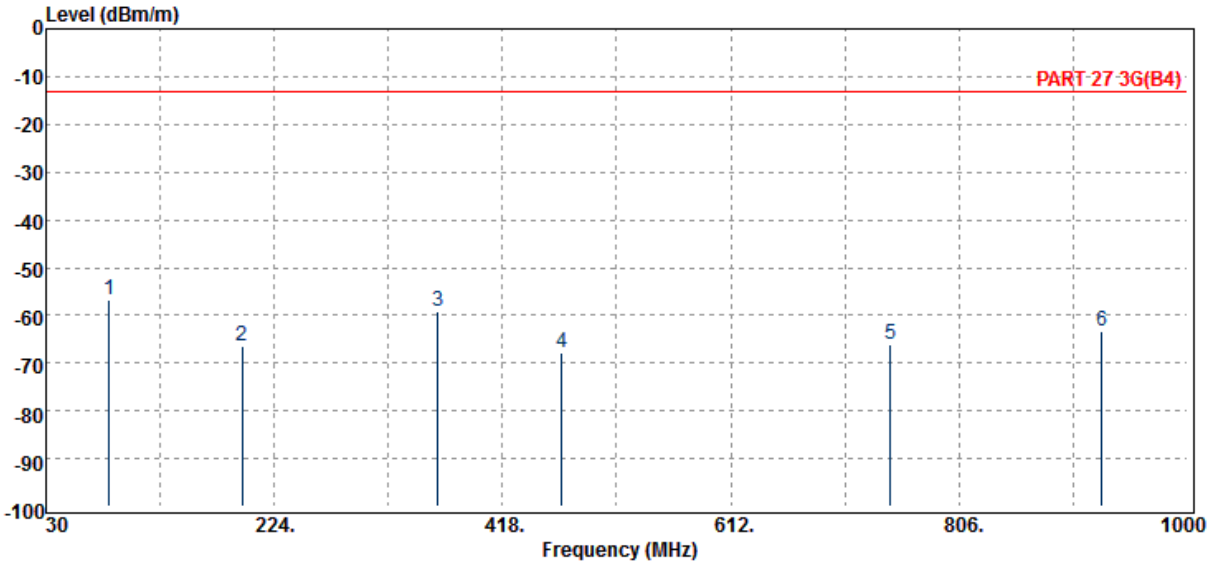
ARFCN	:CH 1312	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
36.79	S	-58.60	-46.63	-11.17	-0.80	-13.00	-45.60
188.11	S	-61.21	-64.20	4.50	-1.51	-13.00	-48.21
362.71	S	-61.35	-65.26	5.87	-1.96	-13.00	-48.35
521.79	S	-70.82	-74.22	5.83	-2.42	-13.00	-57.82
757.50	S	-67.95	-70.69	5.46	-2.71	-13.00	-54.95
929.19	S	-64.86	-67.09	5.40	-3.17	-13.00	-51.86

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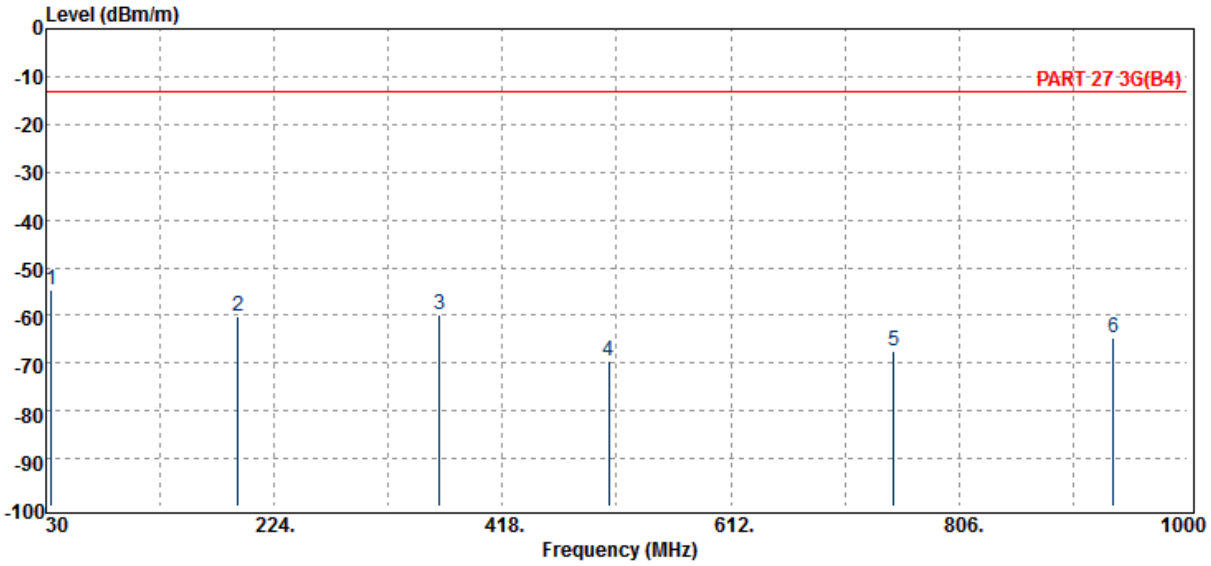
ARFCN	:CH 1413	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
83.35	S	-56.89	-56.02	0.20	-1.06	-13.00	-43.89
196.84	S	-66.48	-70.14	5.18	-1.53	-13.00	-53.48
362.71	S	-59.00	-62.92	5.87	-1.96	-13.00	-46.00
468.44	S	-67.66	-71.20	5.65	-2.12	-13.00	-54.66
747.80	S	-66.09	-68.84	5.44	-2.69	-13.00	-53.09
927.25	S	-63.46	-65.69	5.40	-3.17	-13.00	-50.46

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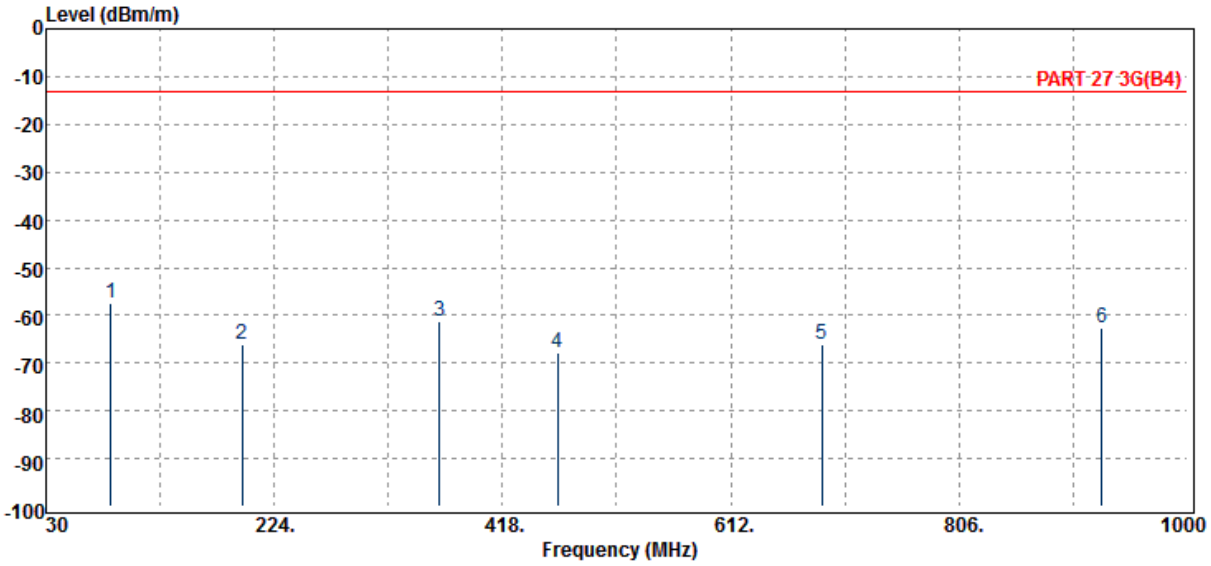
ARFCN	:CH 1413	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-54.76	-42.46	-11.52	-0.78	-13.00	-41.76
192.96	S	-60.36	-63.81	4.97	-1.52	-13.00	-47.36
364.65	S	-59.85	-63.76	5.87	-1.96	-13.00	-46.85
508.21	S	-69.41	-72.94	5.88	-2.35	-13.00	-56.41
750.71	S	-67.33	-70.07	5.43	-2.70	-13.00	-54.33
936.95	S	-64.84	-67.05	5.39	-3.18	-13.00	-51.84

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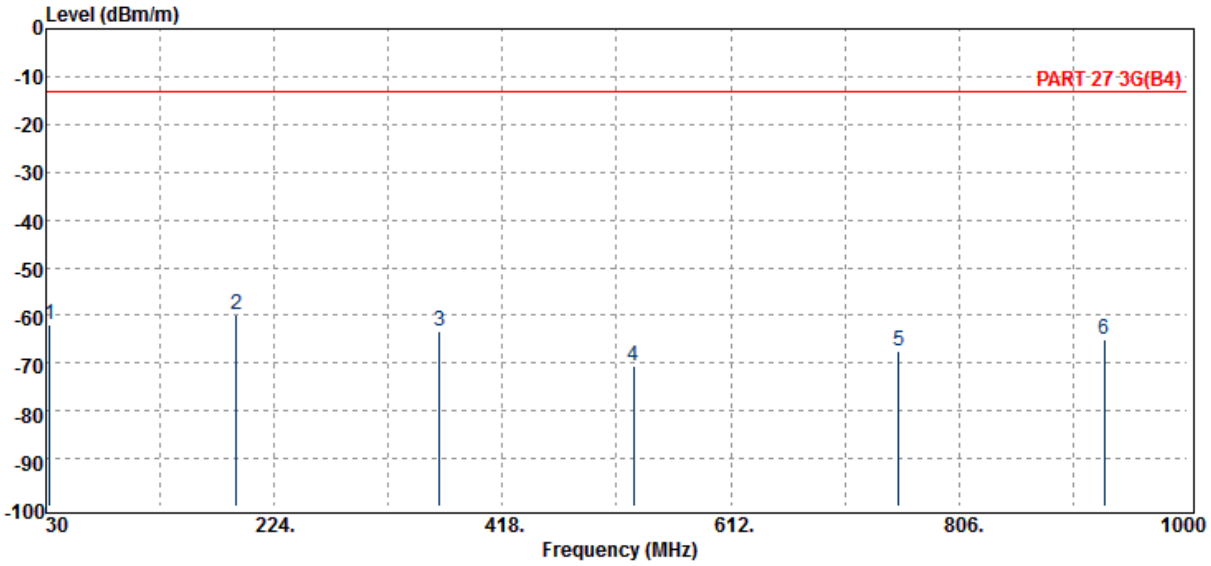
ARFCN	:CH 1513	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
85.29	S	-57.30	-56.88	0.65	-1.07	-13.00	-44.30
196.84	S	-66.18	-69.83	5.18	-1.53	-13.00	-53.18
364.65	S	-61.39	-65.30	5.87	-1.96	-13.00	-48.39
464.56	S	-67.89	-71.40	5.62	-2.11	-13.00	-54.89
689.60	S	-66.21	-69.18	5.58	-2.62	-13.00	-53.21
927.25	S	-62.51	-64.74	5.40	-3.17	-13.00	-49.51

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ARFCN	:CH 1513	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

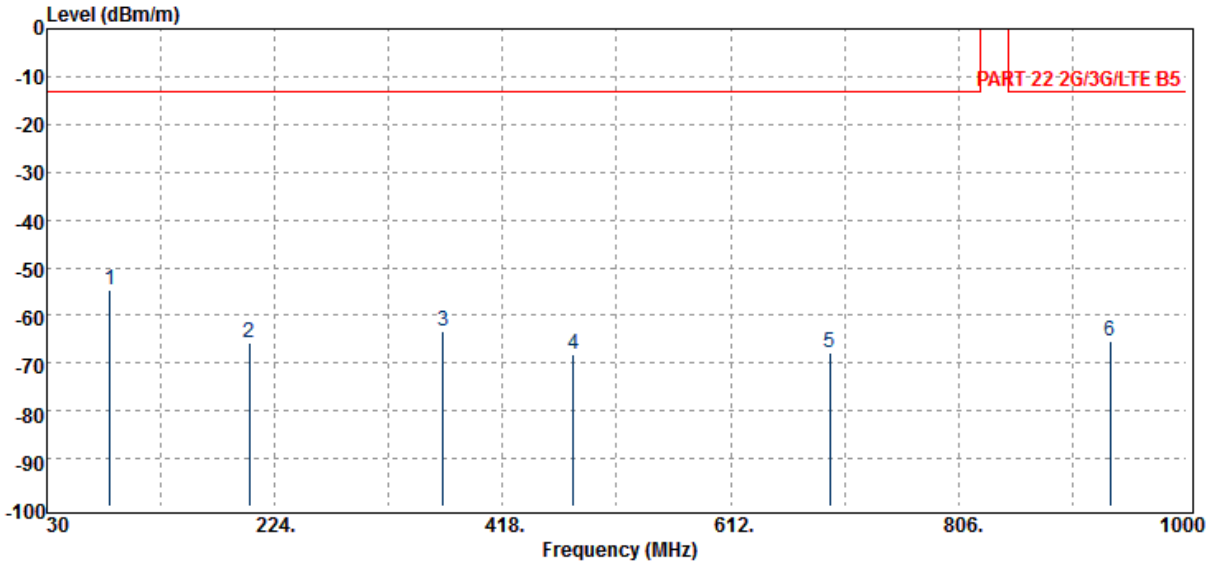


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-62.01	-49.26	-11.98	-0.76	-13.00	-49.01
191.99	S	-59.90	-63.30	4.92	-1.52	-13.00	-46.90
364.65	S	-63.30	-67.20	5.87	-1.96	-13.00	-50.30
529.55	S	-70.47	-73.81	5.81	-2.47	-13.00	-57.47
754.59	S	-67.60	-70.34	5.45	-2.71	-13.00	-54.60
929.19	S	-65.14	-67.36	5.40	-3.17	-13.00	-52.14

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Radiated Spurious Emission Measurement Result: HSDPA V Mode

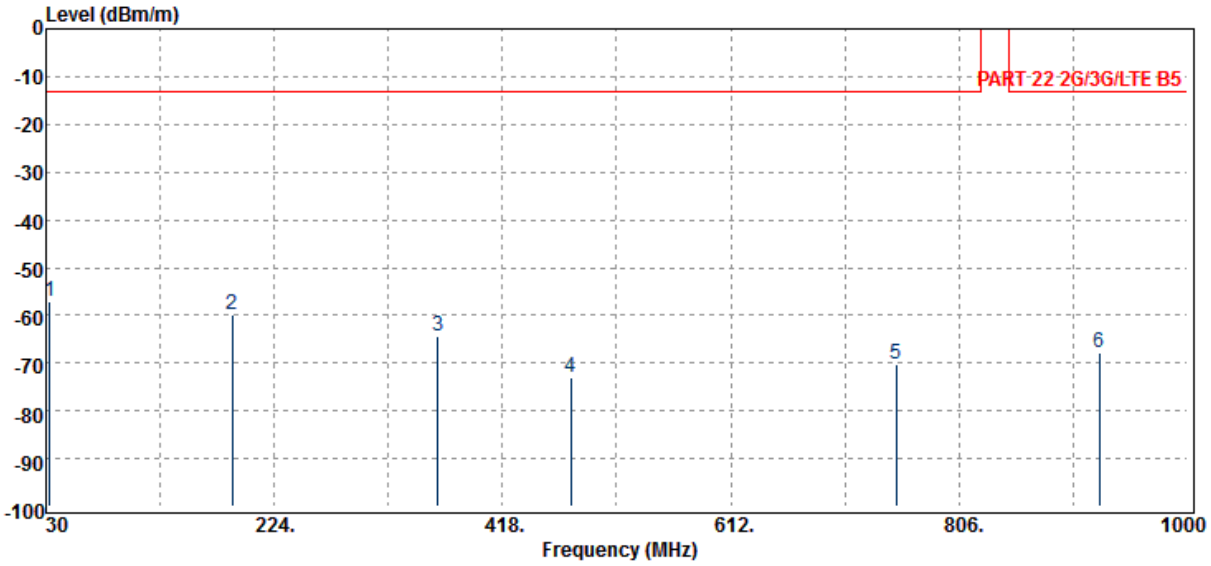
ARFCN	:CH 4132	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
83.35	S	-54.69	-51.67	-1.95	-1.06	-13.00	-41.69
202.66	S	-65.67	-67.48	3.34	-1.54	-13.00	-52.67
367.56	S	-63.33	-65.08	3.71	-1.96	-13.00	-50.33
478.14	S	-68.07	-69.48	3.58	-2.17	-13.00	-55.07
696.39	S	-67.79	-68.58	3.40	-2.61	-13.00	-54.79
935.01	S	-65.53	-65.59	3.24	-3.18	-13.00	-52.53

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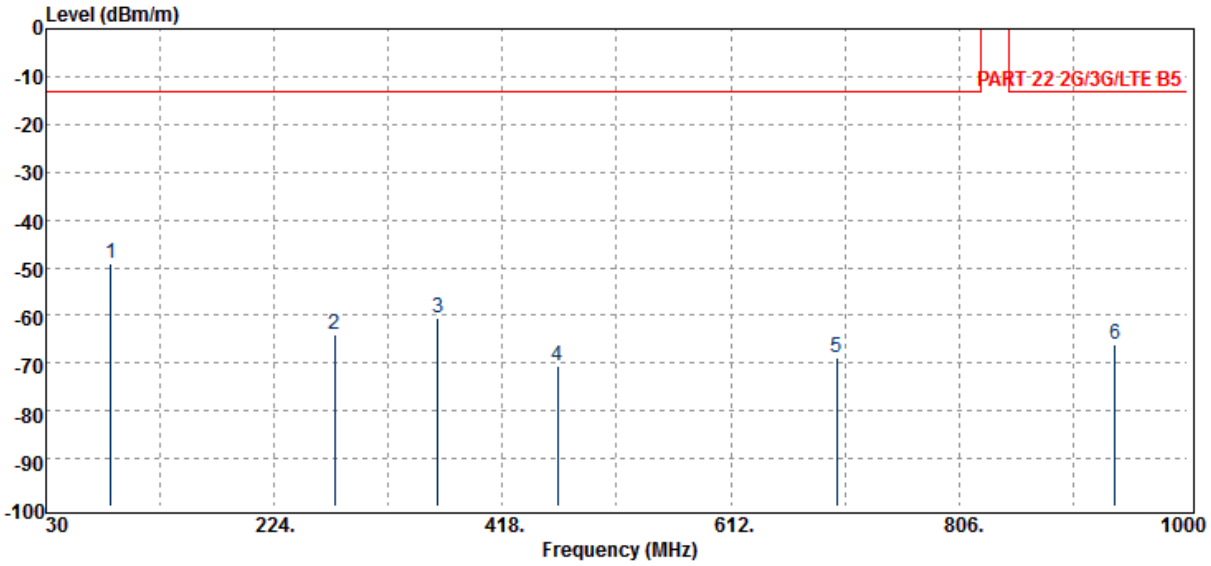
ARFCN	:CH 4132	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-56.93	-42.03	-14.13	-0.76	-13.00	-43.93
188.11	S	-59.97	-60.80	2.35	-1.51	-13.00	-46.97
362.71	S	-64.38	-66.14	3.72	-1.96	-13.00	-51.38
476.20	S	-72.86	-74.26	3.57	-2.16	-13.00	-59.86
752.65	S	-70.22	-70.81	3.29	-2.70	-13.00	-57.22
925.31	S	-67.78	-67.86	3.25	-3.17	-13.00	-54.78

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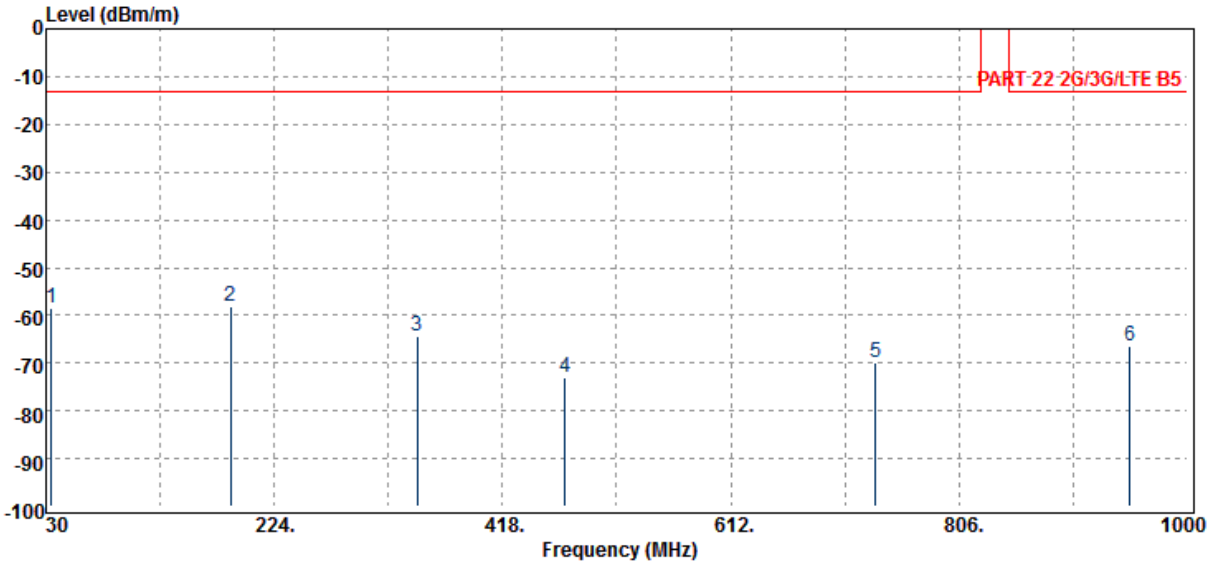
ARFCN	:CH 4183	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
85.29	S	-49.11	-46.54	-1.50	-1.07	-13.00	-36.11
275.41	S	-63.97	-65.72	3.45	-1.71	-13.00	-50.97
362.71	S	-60.54	-62.30	3.72	-1.96	-13.00	-47.54
464.56	S	-70.48	-71.84	3.47	-2.11	-13.00	-57.48
702.21	S	-68.82	-69.59	3.38	-2.61	-13.00	-55.82
938.89	S	-65.98	-66.03	3.24	-3.19	-13.00	-52.98

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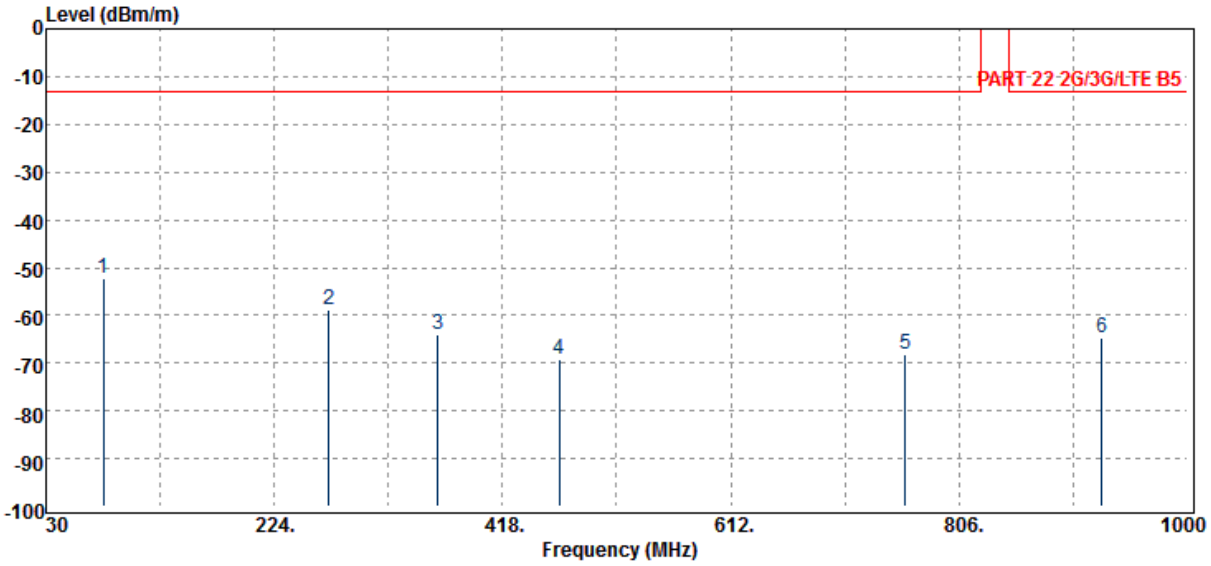
ARFCN	:CH 4183	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-58.55	-44.09	-13.67	-0.78	-13.00	-45.55
187.14	S	-58.18	-58.85	2.19	-1.51	-13.00	-45.18
345.25	S	-64.35	-66.15	3.75	-1.95	-13.00	-51.35
471.35	S	-73.02	-74.42	3.53	-2.13	-13.00	-60.02
735.19	S	-69.73	-70.38	3.31	-2.66	-13.00	-56.73
951.50	S	-66.46	-66.39	3.13	-3.20	-13.00	-53.46

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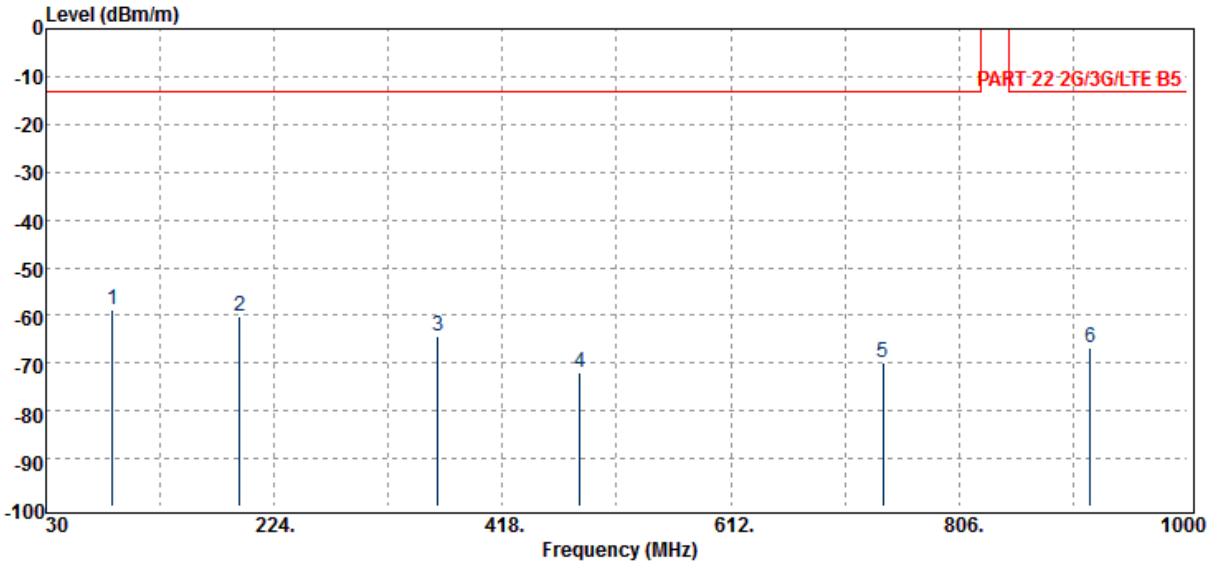
ARFCN	:CH 4233	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
78.50	S	-52.27	-48.03	-3.19	-1.05	-13.00	-39.27
270.56	S	-58.92	-60.82	3.59	-1.69	-13.00	-45.92
362.71	S	-64.18	-65.95	3.72	-1.96	-13.00	-51.18
466.50	S	-69.34	-70.72	3.49	-2.11	-13.00	-56.34
760.41	S	-68.25	-68.85	3.32	-2.72	-13.00	-55.25
927.25	S	-64.87	-64.95	3.25	-3.17	-13.00	-51.87

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ARFCN	:CH 4233	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

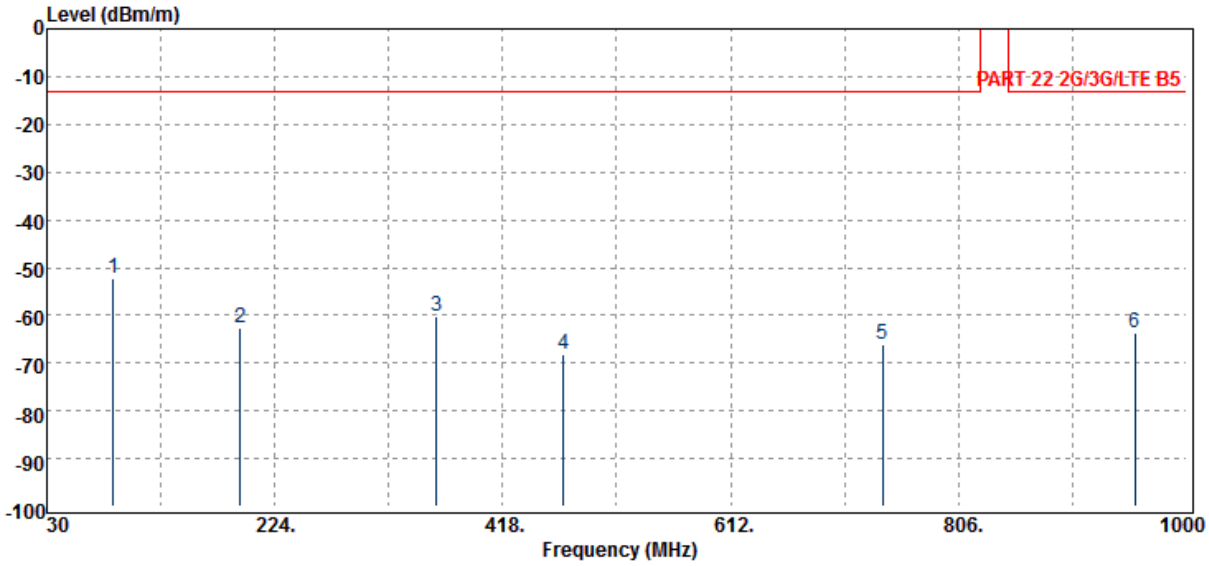


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
86.26	S	-58.91	-56.57	-1.27	-1.08	-13.00	-45.91
194.90	S	-60.11	-61.51	2.93	-1.53	-13.00	-47.11
362.71	S	-64.39	-66.16	3.72	-1.96	-13.00	-51.39
483.96	S	-72.03	-73.46	3.63	-2.21	-13.00	-59.03
741.01	S	-69.76	-70.39	3.30	-2.67	-13.00	-56.76
917.55	S	-66.87	-66.97	3.25	-3.16	-13.00	-53.87

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Radiated Spurious Emission Measurement Result: CDMA BC0 Mode

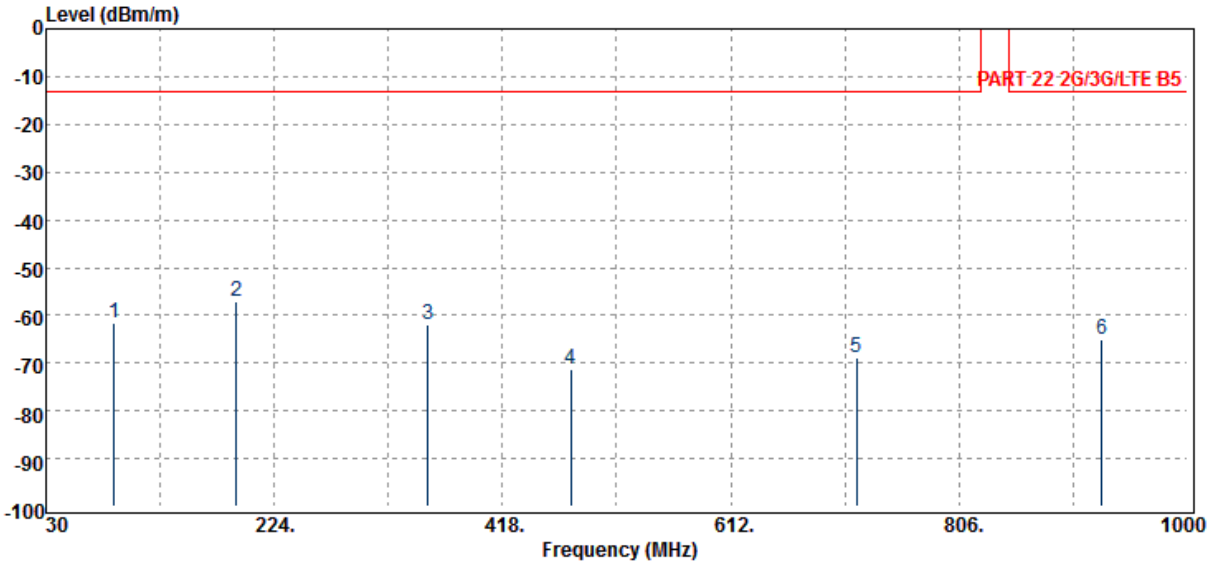
ARFCN	:CH 1013	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
86.26	S	-52.28	-52.08	0.88	-1.08	-13.00	-39.28
194.90	S	-62.49	-66.04	5.08	-1.53	-13.00	-49.49
361.74	S	-60.28	-64.19	5.88	-1.96	-13.00	-47.28
469.41	S	-68.26	-71.80	5.66	-2.12	-13.00	-55.26
741.01	S	-65.97	-68.74	5.45	-2.67	-13.00	-52.97
956.35	S	-63.50	-65.25	4.96	-3.21	-13.00	-50.50

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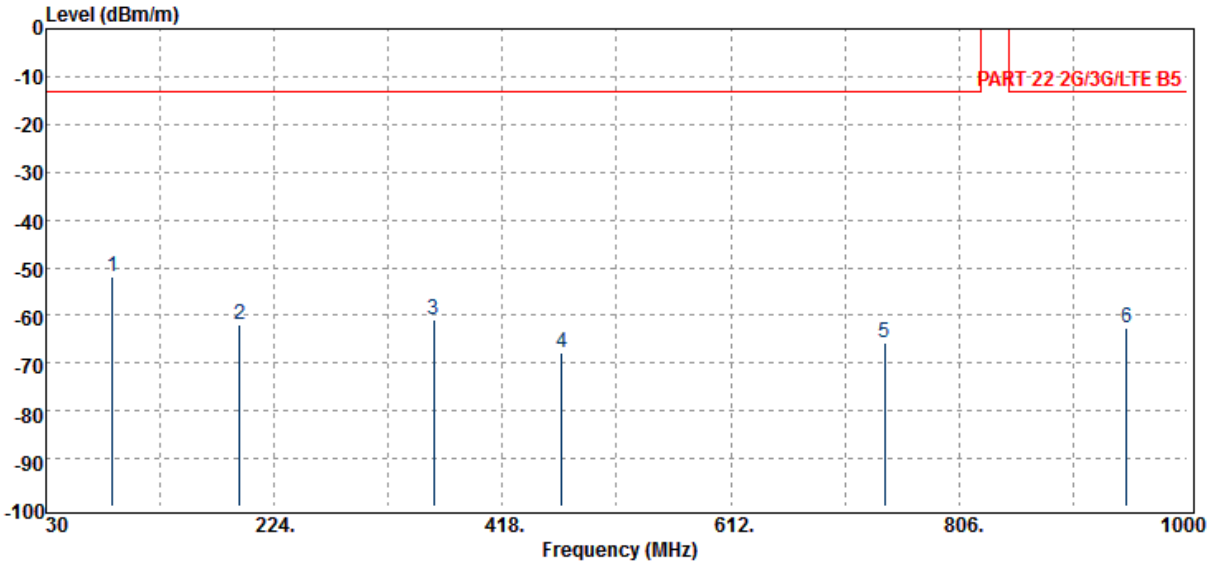
ARFCN	:CH 1013	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
88.20	S	-61.55	-61.78	1.32	-1.08	-13.00	-48.55
191.99	S	-57.05	-60.45	4.92	-1.52	-13.00	-44.05
354.95	S	-62.04	-65.97	5.90	-1.97	-13.00	-49.04
476.20	S	-71.22	-74.78	5.72	-2.16	-13.00	-58.22
718.70	S	-68.83	-71.70	5.49	-2.62	-13.00	-55.83
927.25	S	-65.07	-67.30	5.40	-3.17	-13.00	-52.07

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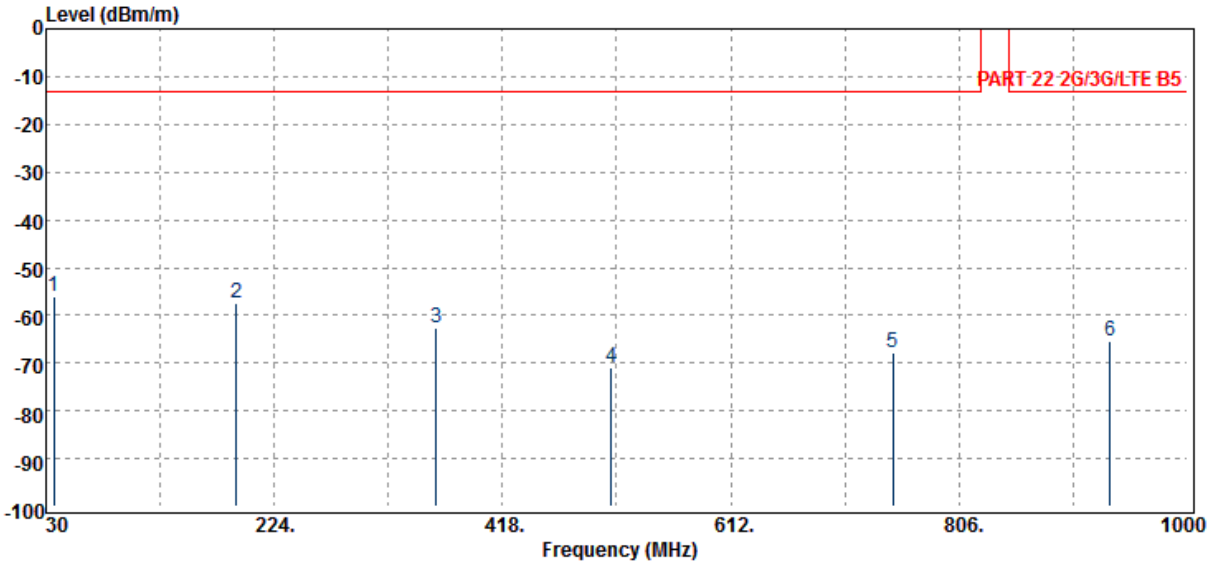
ARFCN	:CH 384	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
86.26	S	-51.73	-51.53	0.88	-1.08	-13.00	-38.73
194.90	S	-62.03	-65.58	5.08	-1.53	-13.00	-49.03
359.80	S	-60.79	-64.71	5.88	-1.96	-13.00	-47.79
468.44	S	-67.89	-71.42	5.65	-2.12	-13.00	-54.89
742.95	S	-65.75	-68.52	5.45	-2.68	-13.00	-52.75
948.59	S	-62.75	-64.94	5.39	-3.20	-13.00	-49.75

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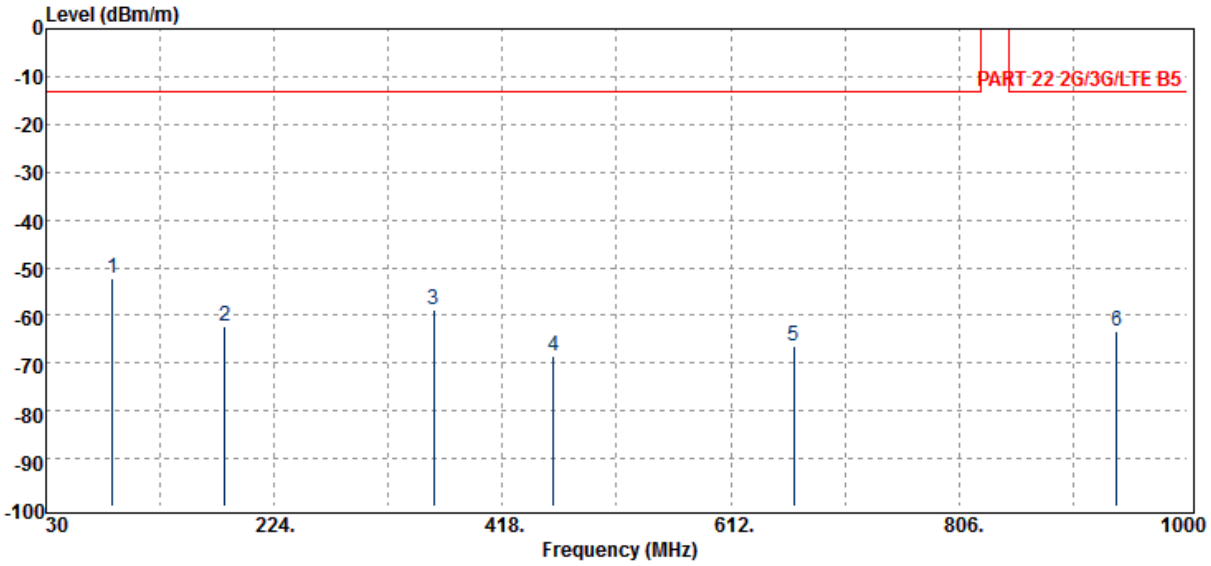
ARFCN	:CH 384	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-56.18	-44.21	-11.17	-0.80	-13.00	-43.18
191.99	S	-57.36	-60.76	4.92	-1.52	-13.00	-44.36
361.74	S	-62.49	-66.40	5.88	-1.96	-13.00	-49.49
510.15	S	-70.93	-74.44	5.87	-2.36	-13.00	-57.93
749.74	S	-67.67	-70.40	5.43	-2.70	-13.00	-54.67
934.04	S	-65.31	-67.52	5.39	-3.18	-13.00	-52.31

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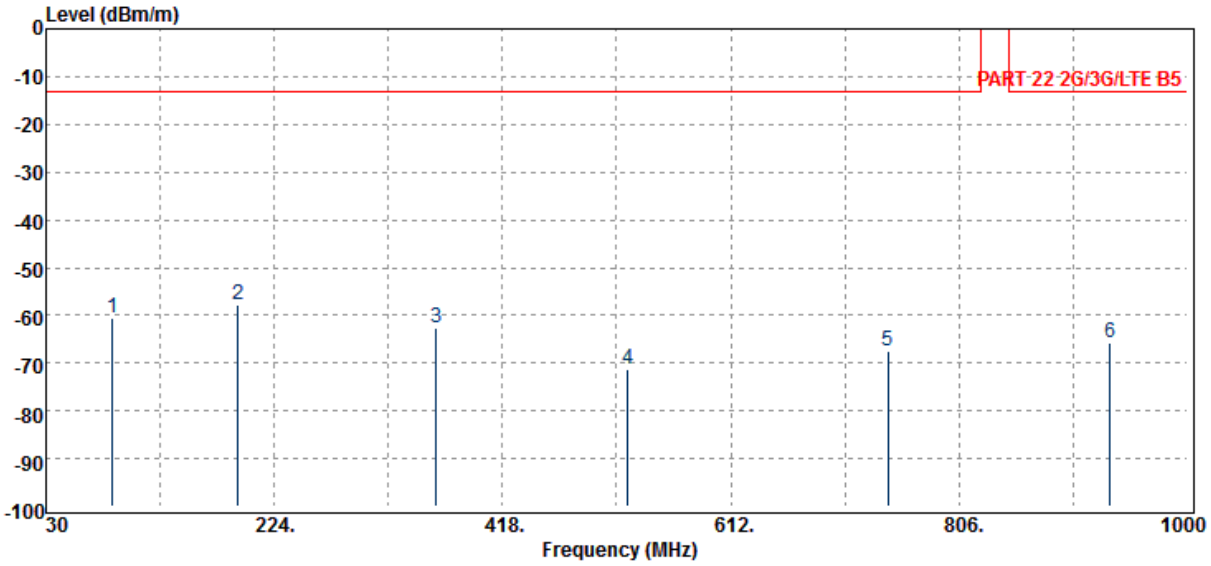
ARFCN	:CH 777	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
86.26	S	-52.18	-51.99	0.88	-1.08	-13.00	-39.18
182.29	S	-62.32	-64.34	3.53	-1.50	-13.00	-49.32
359.80	S	-58.78	-62.70	5.88	-1.96	-13.00	-45.78
461.65	S	-68.39	-71.89	5.59	-2.10	-13.00	-55.39
665.35	S	-66.54	-69.61	5.71	-2.64	-13.00	-53.54
939.86	S	-63.41	-65.62	5.39	-3.19	-13.00	-50.41

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ARFCN	:CH 777	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

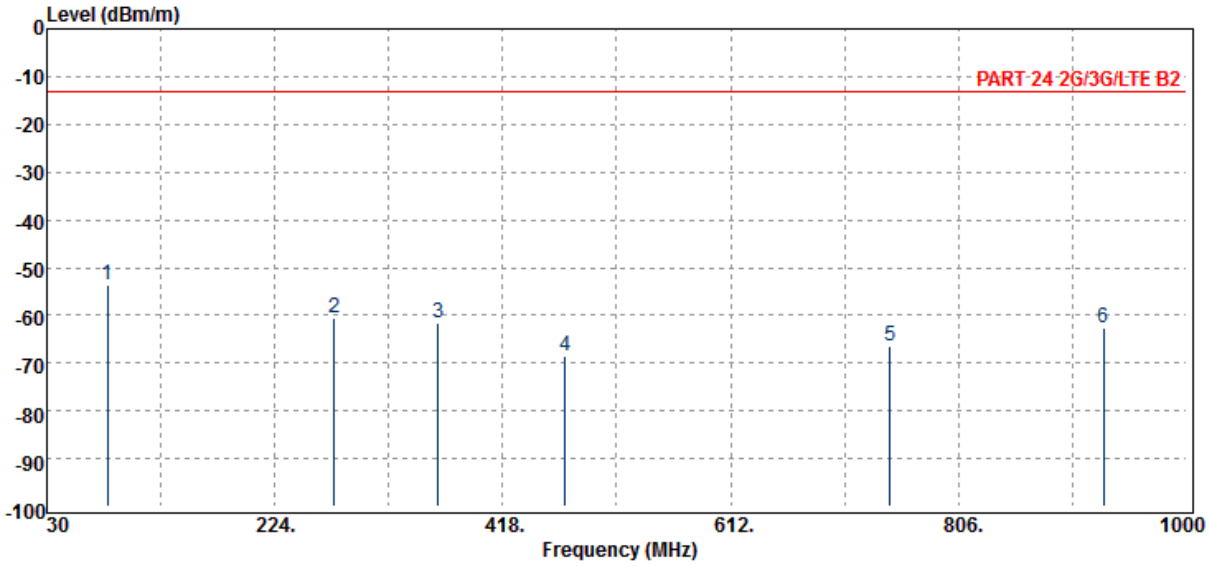


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
86.26	S	-60.46	-60.27	0.88	-1.08	-13.00	-47.46
192.96	S	-57.84	-61.29	4.97	-1.52	-13.00	-44.84
361.74	S	-62.61	-66.53	5.88	-1.96	-13.00	-49.61
524.70	S	-71.18	-74.56	5.82	-2.44	-13.00	-58.18
745.86	S	-67.31	-70.06	5.44	-2.69	-13.00	-54.31
934.04	S	-65.65	-67.87	5.39	-3.18	-13.00	-52.65

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Radiated Spurious Emission Measurement Result: CDMA BC1 Mode

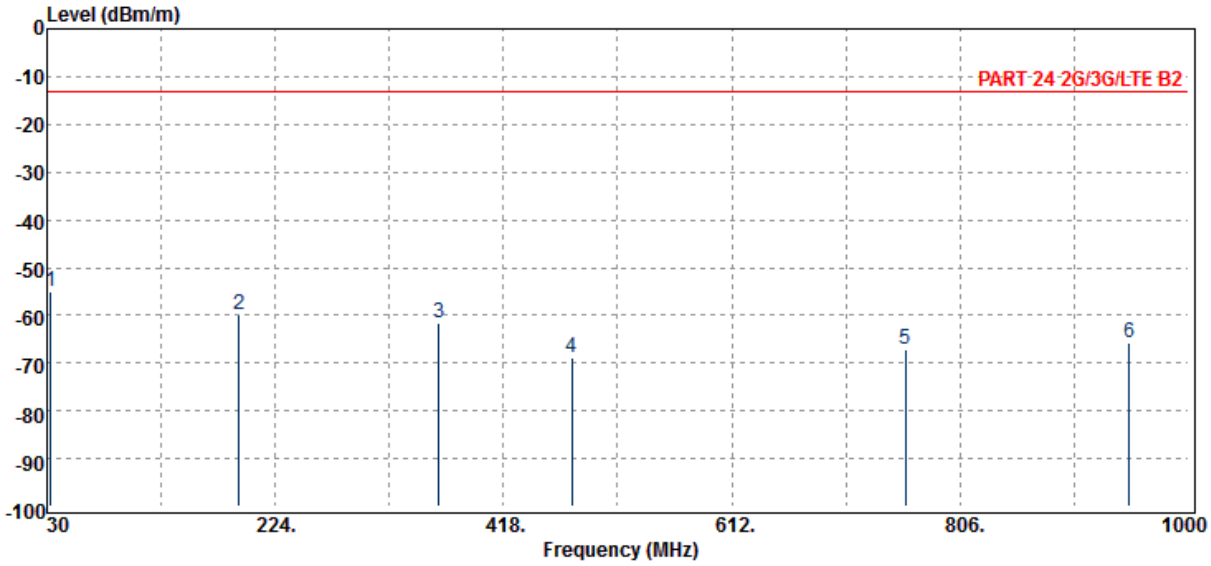
ARFCN	:CH 25	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-53.67	-52.35	-0.26	-1.06	-13.00	-40.67
274.44	S	-60.48	-64.41	5.63	-1.70	-13.00	-47.48
362.71	S	-61.45	-65.37	5.87	-1.96	-13.00	-48.45
471.35	S	-68.37	-71.92	5.68	-2.13	-13.00	-55.37
747.80	S	-66.56	-69.31	5.44	-2.69	-13.00	-53.56
929.19	S	-62.63	-64.85	5.40	-3.17	-13.00	-49.63

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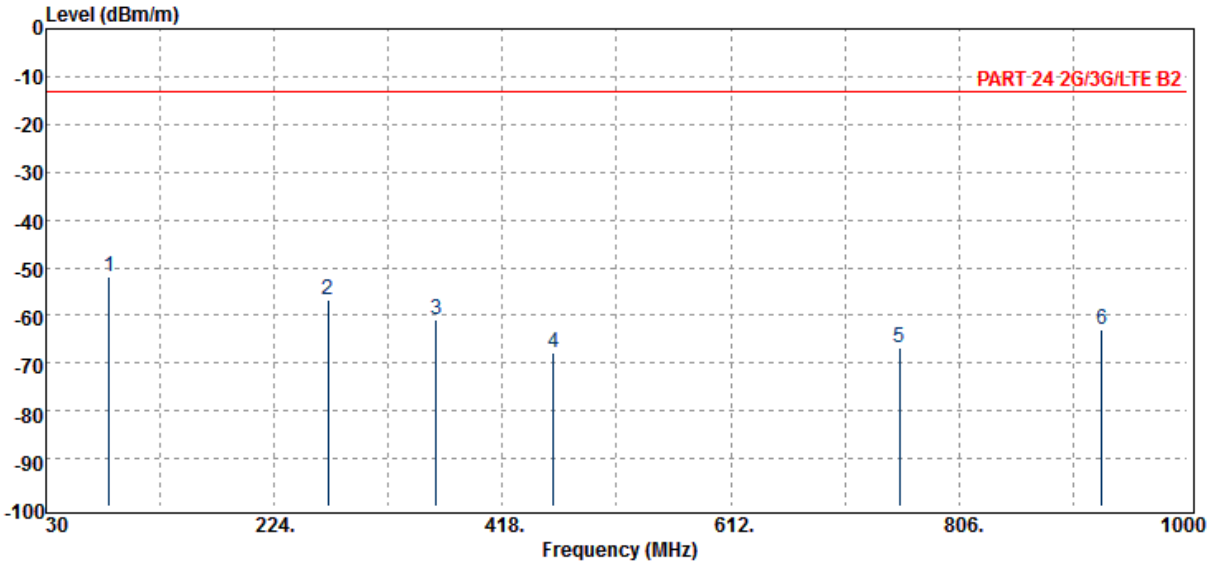
ARFCN	:CH 25	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-55.10	-42.36	-11.98	-0.76	-13.00	-42.10
192.96	S	-59.98	-63.43	4.97	-1.52	-13.00	-46.98
362.71	S	-61.61	-65.53	5.87	-1.96	-13.00	-48.61
476.20	S	-68.72	-72.28	5.72	-2.16	-13.00	-55.72
759.44	S	-67.15	-69.90	5.46	-2.72	-13.00	-54.15
949.56	S	-65.70	-67.88	5.38	-3.20	-13.00	-52.70

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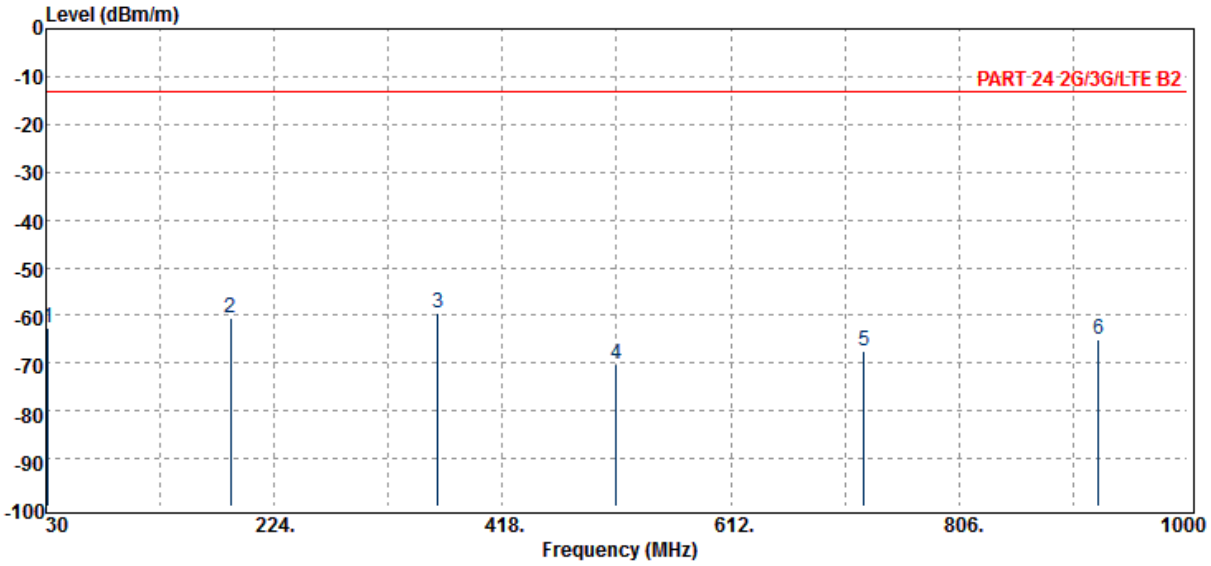
ARFCN	:CH 600	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
83.35	S	-51.81	-50.95	0.20	-1.06	-13.00	-38.81
269.59	S	-56.88	-60.95	5.76	-1.69	-13.00	-43.88
361.74	S	-60.87	-64.79	5.88	-1.96	-13.00	-47.87
461.65	S	-67.80	-71.30	5.59	-2.10	-13.00	-54.80
755.56	S	-66.71	-69.45	5.45	-2.71	-13.00	-53.71
927.25	S	-63.09	-65.32	5.40	-3.17	-13.00	-50.09

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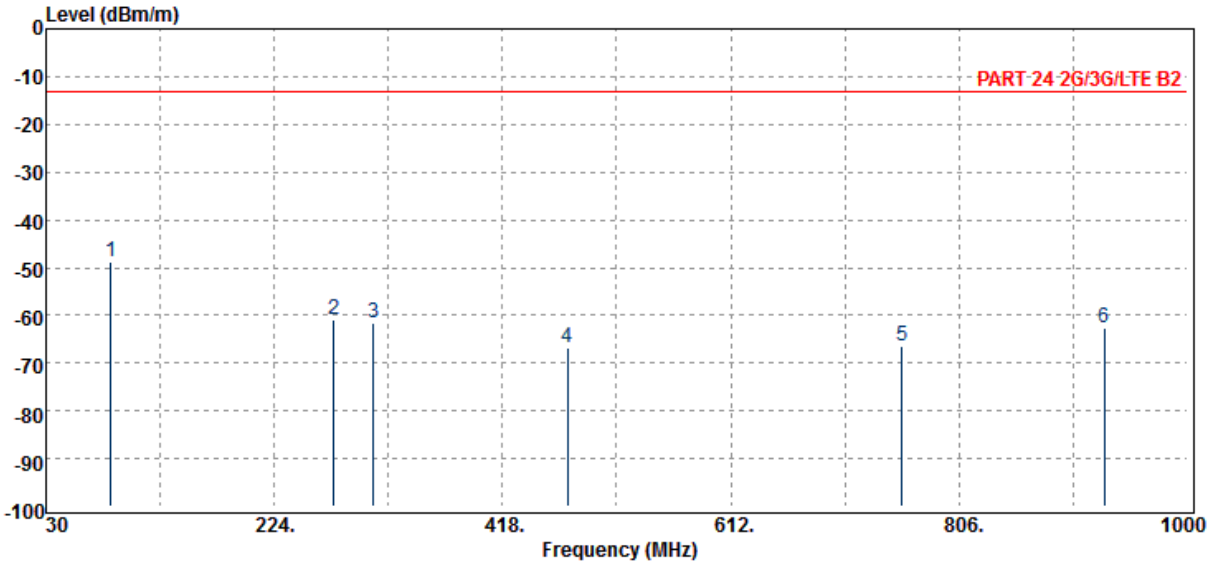
ARFCN	:CH 600	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-62.63	-49.65	-12.22	-0.75	-13.00	-49.63
187.14	S	-60.47	-63.29	4.34	-1.51	-13.00	-47.47
362.71	S	-59.67	-63.58	5.87	-1.96	-13.00	-46.67
515.00	S	-70.33	-73.80	5.86	-2.39	-13.00	-57.33
725.49	S	-67.45	-70.29	5.48	-2.64	-13.00	-54.45
924.34	S	-65.18	-67.41	5.40	-3.17	-13.00	-52.18

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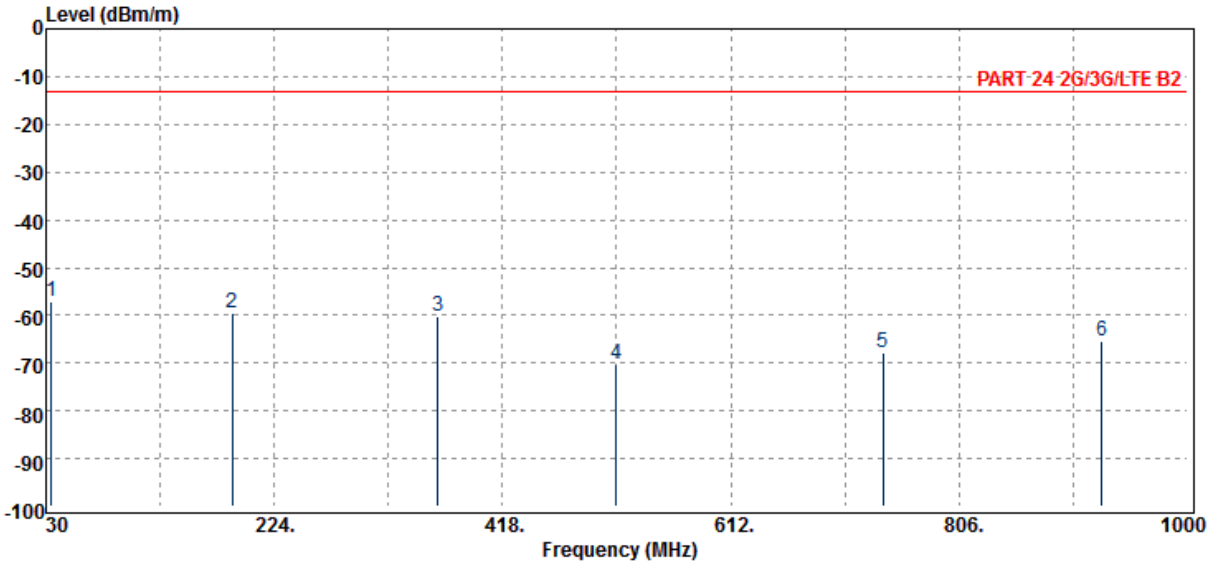
ARFCN	:CH 1175	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
85.29	S	-48.67	-48.25	0.65	-1.07	-13.00	-35.67
274.44	S	-60.74	-64.67	5.63	-1.70	-13.00	-47.74
308.39	S	-61.45	-65.43	5.80	-1.82	-13.00	-48.45
473.29	S	-66.73	-70.28	5.69	-2.14	-13.00	-53.73
757.50	S	-66.50	-69.24	5.46	-2.71	-13.00	-53.50
929.19	S	-62.69	-64.91	5.40	-3.17	-13.00	-49.69

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ARFCN	:CH 1175	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

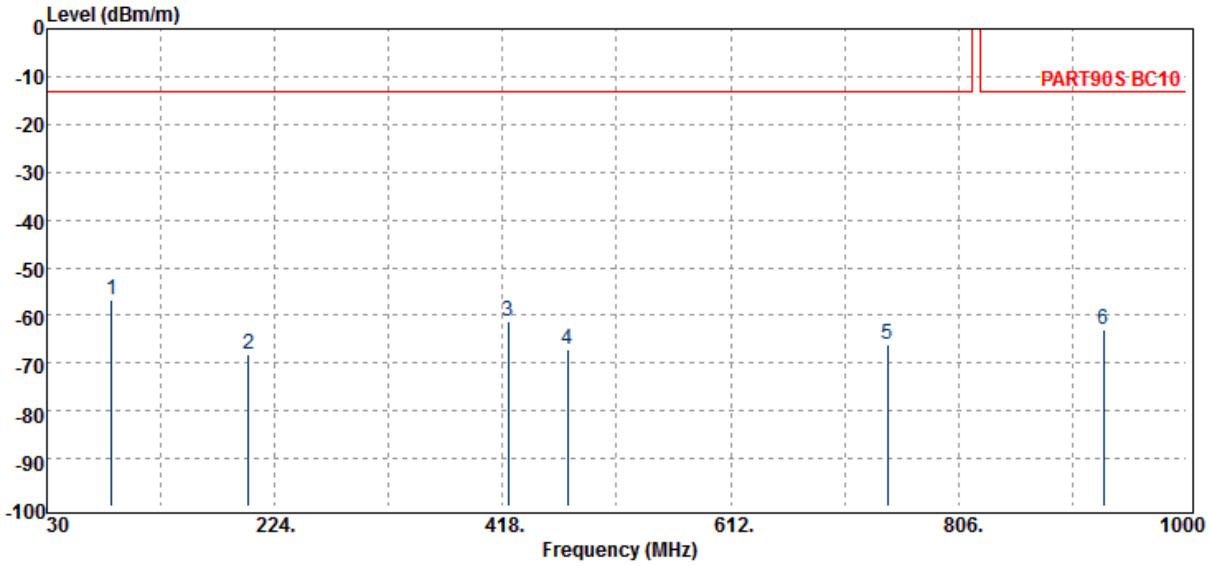


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-57.10	-44.80	-11.52	-0.78	-13.00	-44.10
188.11	S	-59.48	-62.47	4.50	-1.51	-13.00	-46.48
362.71	S	-60.27	-64.18	5.87	-1.96	-13.00	-47.27
515.00	S	-70.13	-73.60	5.86	-2.39	-13.00	-57.13
741.01	S	-67.84	-70.62	5.45	-2.67	-13.00	-54.84
927.25	S	-65.52	-67.75	5.40	-3.17	-13.00	-52.52

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Radiated Spurious Emission Measurement Result: CDMA BC10 Mode

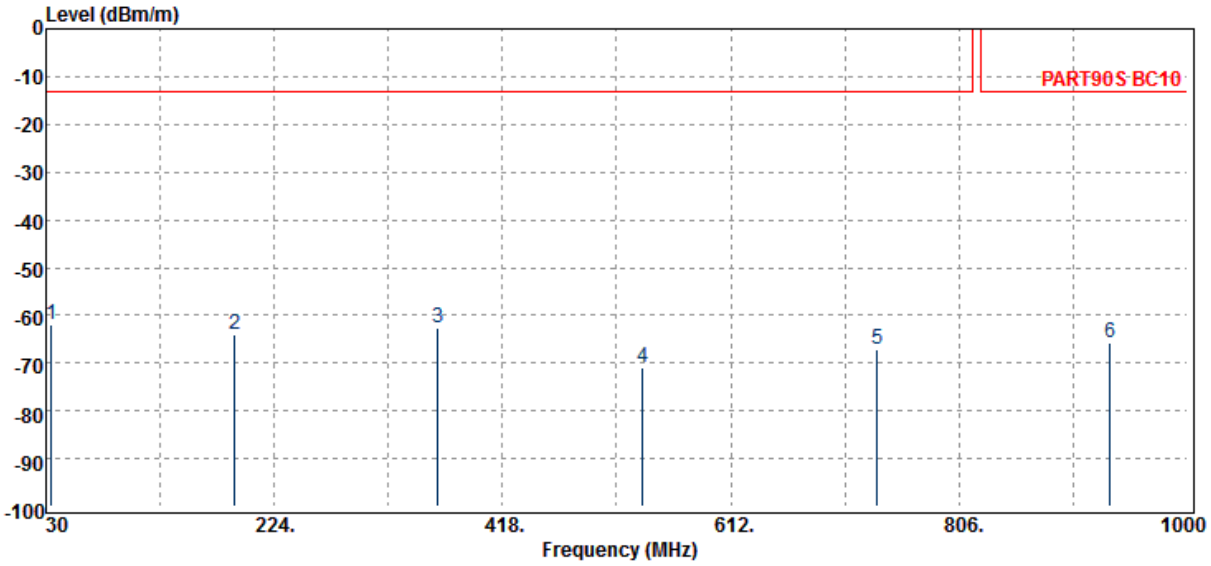
ARFCN	:CH 476	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
85.29	S	-56.68	-56.26	0.65	-1.07	-13.00	-43.68
201.69	S	-68.18	-72.09	5.44	-1.54	-13.00	-55.18
422.85	S	-61.17	-64.83	5.64	-1.98	-13.00	-48.17
473.29	S	-67.27	-70.82	5.69	-2.14	-13.00	-54.27
745.86	S	-66.08	-68.84	5.44	-2.69	-13.00	-53.08
929.19	S	-63.02	-65.24	5.40	-3.17	-13.00	-50.02

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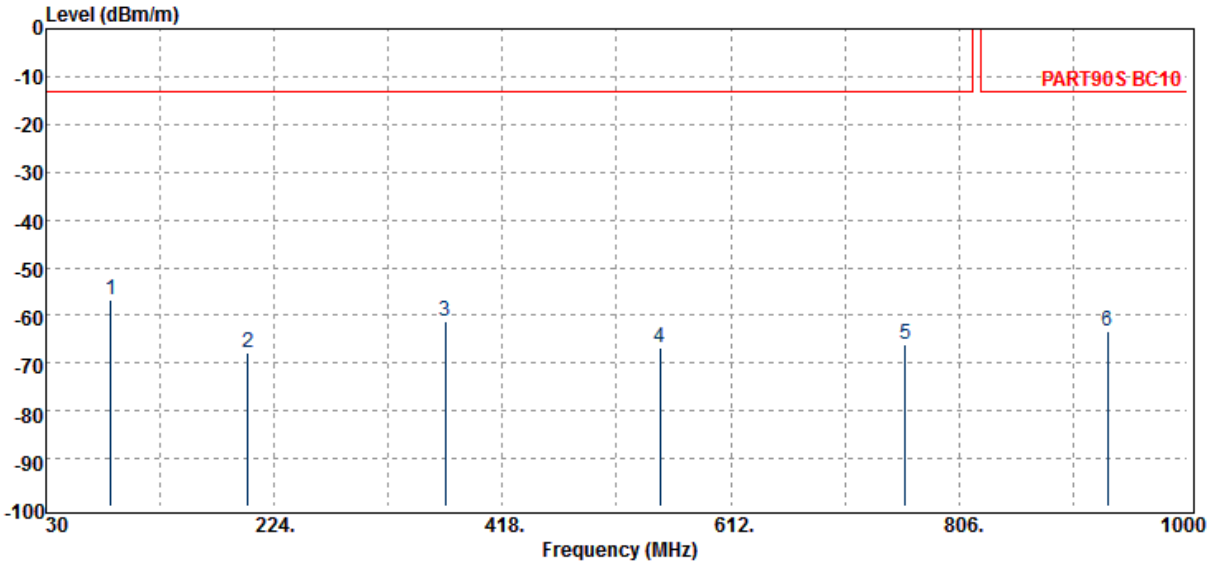
ARFCN	:CH 476	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-61.97	-49.66	-11.52	-0.78	-13.00	-48.97
190.05	S	-64.03	-67.32	4.81	-1.52	-13.00	-51.03
362.71	S	-62.56	-66.47	5.87	-1.96	-13.00	-49.56
537.31	S	-70.83	-74.10	5.78	-2.51	-13.00	-57.83
736.16	S	-67.17	-69.97	5.46	-2.66	-13.00	-54.17
934.04	S	-65.78	-67.99	5.39	-3.18	-13.00	-52.78

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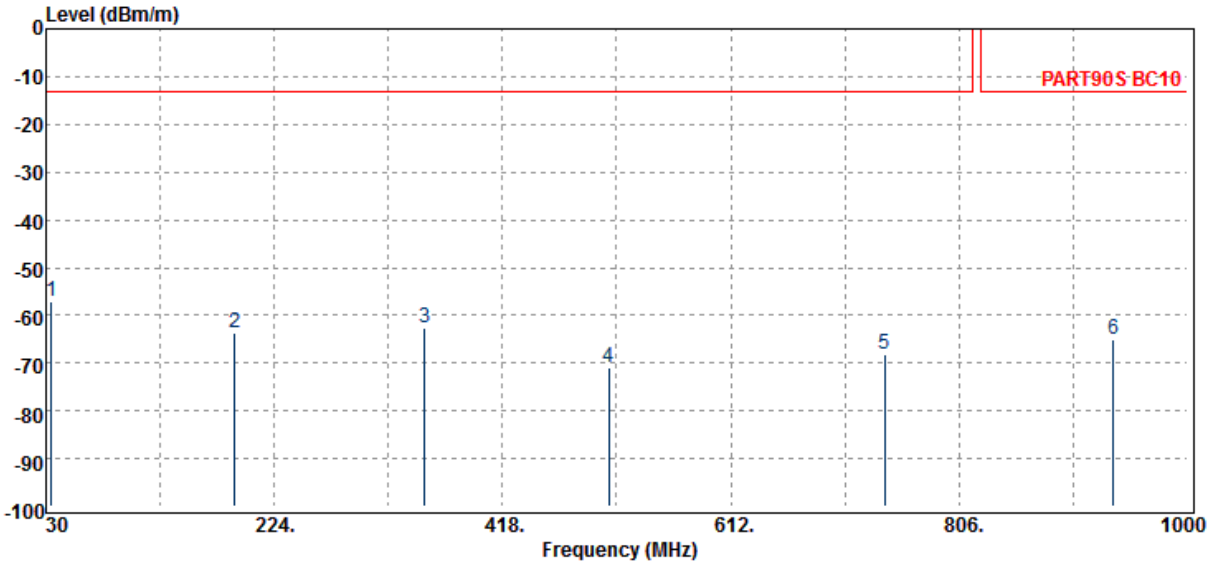
ARFCN	:CH 580	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
85.29	S	-56.81	-56.39	0.65	-1.07	-13.00	-43.81
201.69	S	-67.89	-71.80	5.44	-1.54	-13.00	-54.89
369.50	S	-61.27	-65.16	5.85	-1.96	-13.00	-48.27
551.86	S	-66.78	-69.93	5.73	-2.58	-13.00	-53.78
760.41	S	-65.97	-68.71	5.47	-2.72	-13.00	-52.97
932.10	S	-63.29	-65.51	5.40	-3.18	-13.00	-50.29

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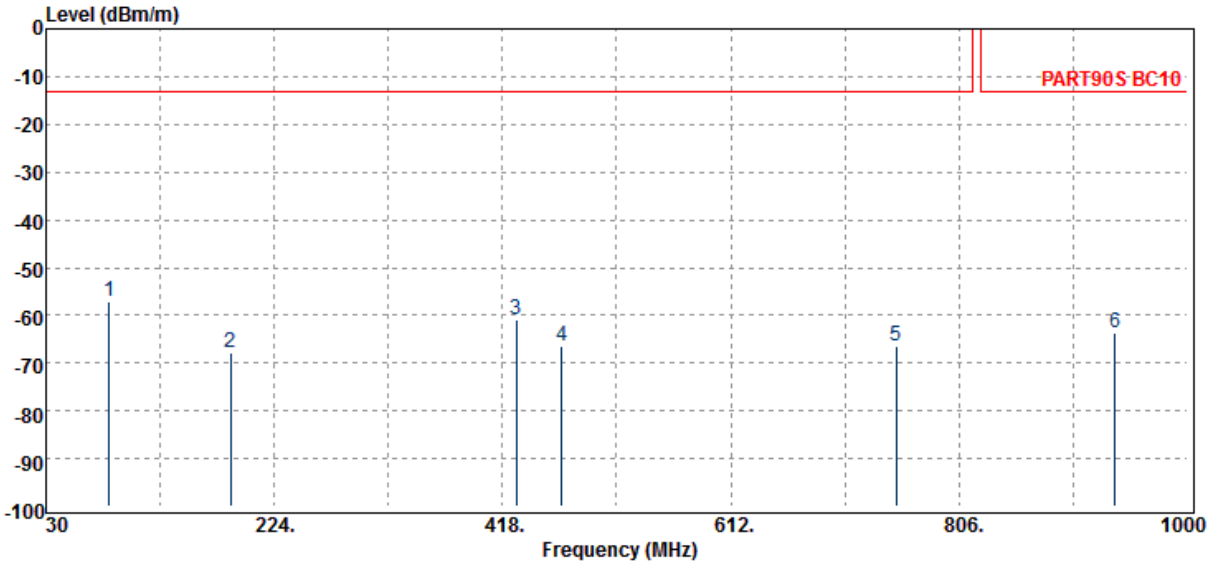
ARFCN	:CH 580	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-56.98	-44.67	-11.52	-0.78	-13.00	-43.98
190.05	S	-63.68	-66.97	4.81	-1.52	-13.00	-50.68
352.04	S	-62.63	-66.57	5.91	-1.97	-13.00	-49.63
508.21	S	-70.91	-74.45	5.88	-2.35	-13.00	-57.91
742.95	S	-68.25	-71.02	5.45	-2.68	-13.00	-55.25
936.95	S	-65.02	-67.23	5.39	-3.18	-13.00	-52.02

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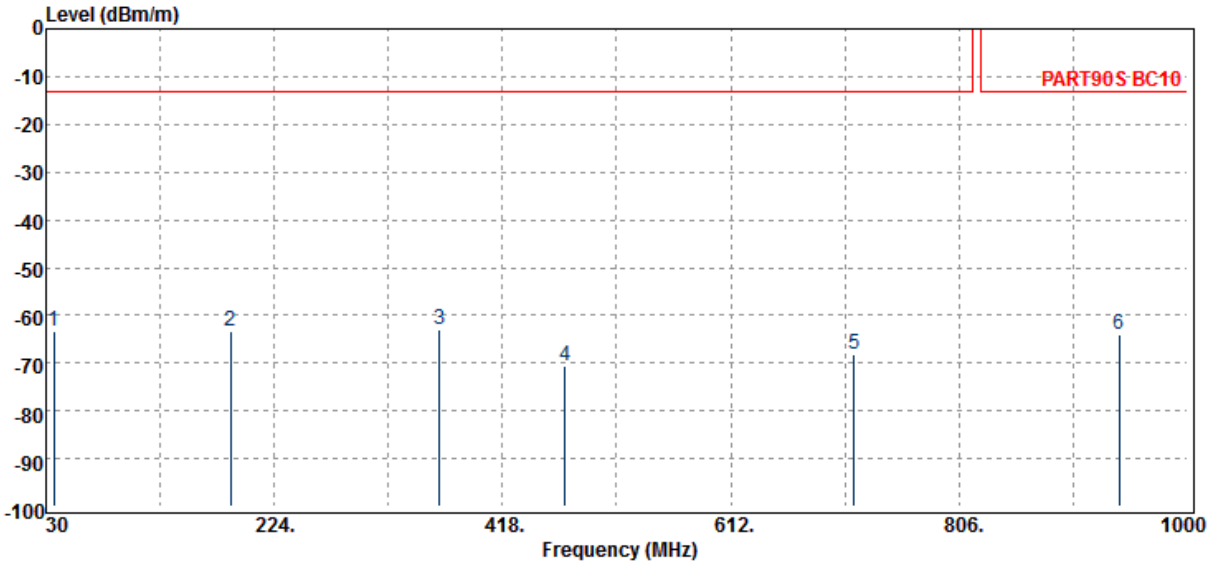
ARFCN	:CH 684	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
83.35	S	-57.04	-56.17	0.20	-1.06	-13.00	-44.04
187.14	S	-67.94	-70.76	4.34	-1.51	-13.00	-54.94
429.64	S	-60.80	-64.40	5.60	-2.00	-13.00	-47.80
468.44	S	-66.58	-70.11	5.65	-2.12	-13.00	-53.58
752.65	S	-66.44	-69.18	5.44	-2.70	-13.00	-53.44
938.89	S	-63.72	-65.93	5.39	-3.19	-13.00	-50.72

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ARFCN	:CH 684	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

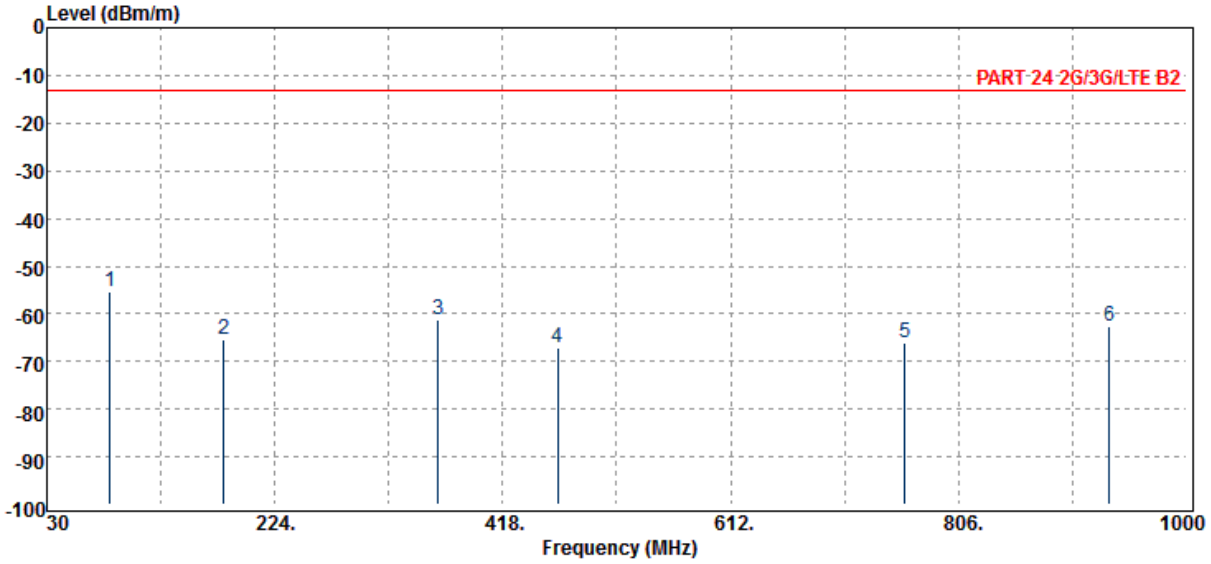


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-63.32	-51.35	-11.17	-0.80	-13.00	-50.32
187.14	S	-63.35	-66.17	4.34	-1.51	-13.00	-50.35
364.65	S	-62.96	-66.87	5.87	-1.96	-13.00	-49.96
471.35	S	-70.62	-74.17	5.68	-2.13	-13.00	-57.62
716.76	S	-68.31	-71.19	5.50	-2.62	-13.00	-55.31
941.80	S	-64.00	-66.19	5.39	-3.19	-13.00	-51.00

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

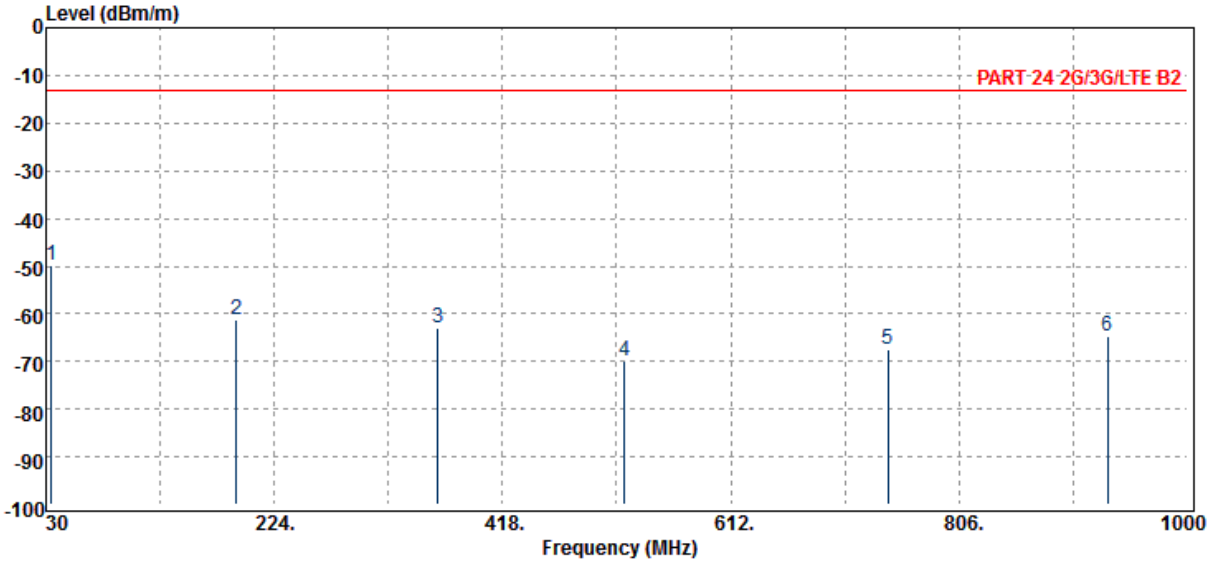
ARFCN	:CH 18607 QPSK BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Safe Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
83.35	S	-55.30	-54.44	0.20	-1.06	-13.00	-42.30
180.35	S	-65.39	-67.09	3.20	-1.50	-13.00	-52.39
362.71	S	-61.29	-65.20	5.87	-1.96	-13.00	-48.29
464.56	S	-67.12	-70.64	5.62	-2.11	-13.00	-54.12
760.41	S	-65.92	-68.66	5.47	-2.72	-13.00	-52.92
934.04	S	-62.77	-64.99	5.39	-3.18	-13.00	-49.77

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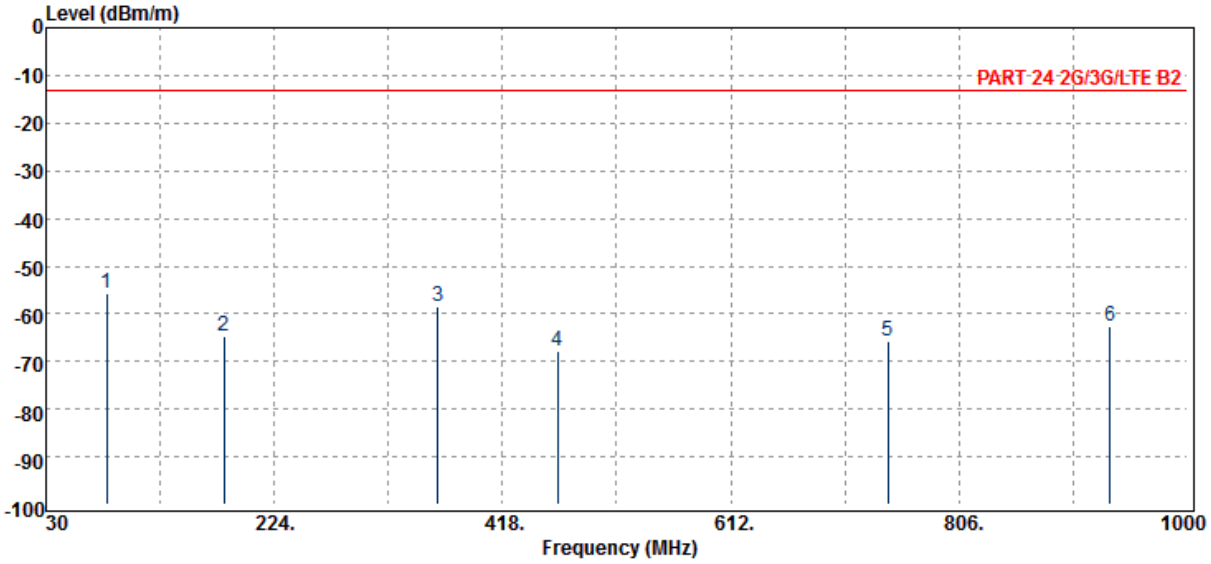
ARFCN	:CH 18607 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-49.91	-37.60	-11.52	-0.78	-13.00	-36.91
191.99	S	-61.14	-64.53	4.92	-1.52	-13.00	-48.14
362.71	S	-62.98	-66.89	5.87	-1.96	-13.00	-49.98
521.79	S	-70.04	-73.45	5.83	-2.42	-13.00	-57.04
745.86	S	-67.60	-70.35	5.44	-2.69	-13.00	-54.60
932.10	S	-64.66	-66.88	5.40	-3.18	-13.00	-51.66

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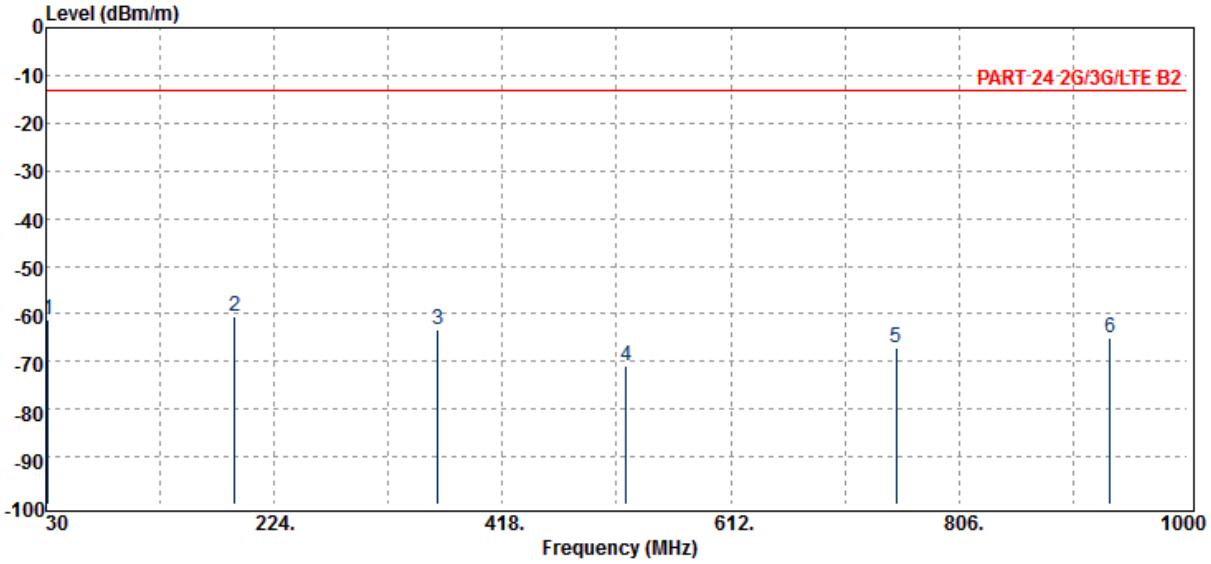
ARFCN	:CH 18900 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-55.81	-54.49	-0.26	-1.06	-13.00	-42.81
181.32	S	-64.65	-66.51	3.36	-1.50	-13.00	-51.65
362.71	S	-58.61	-62.52	5.87	-1.96	-13.00	-45.61
464.56	S	-67.97	-71.48	5.62	-2.11	-13.00	-54.97
745.86	S	-65.85	-68.60	5.44	-2.69	-13.00	-52.85
934.04	S	-62.54	-64.76	5.39	-3.18	-13.00	-49.54

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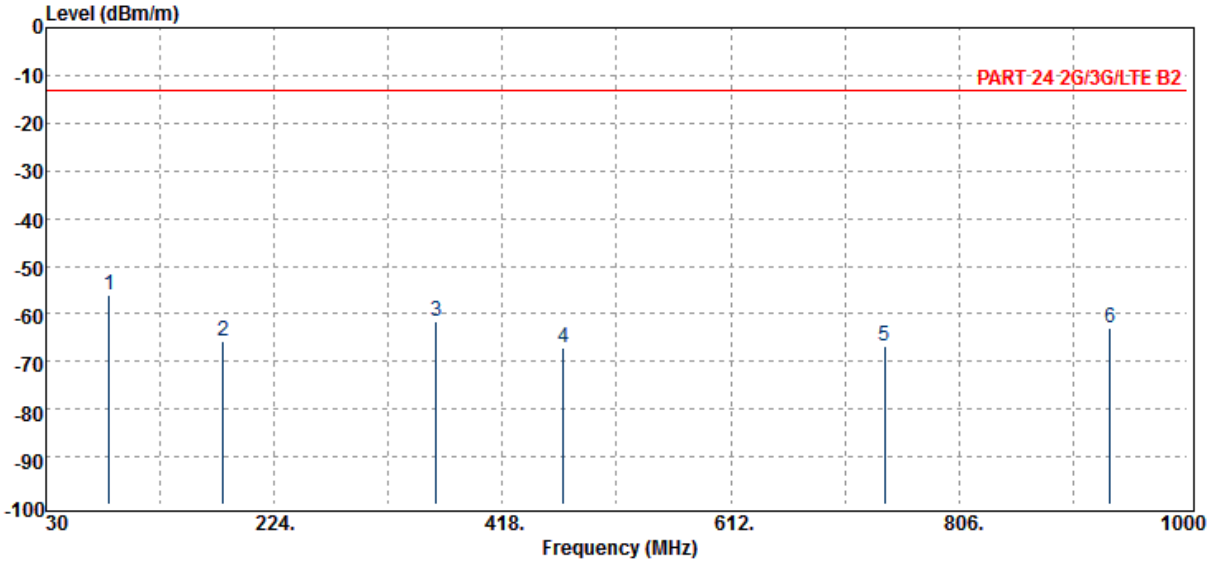
ARFCN	:CH 18900 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-61.28	-48.30	-12.22	-0.75	-13.00	-48.28
190.05	S	-60.71	-64.00	4.81	-1.52	-13.00	-47.71
362.71	S	-63.26	-67.17	5.87	-1.96	-13.00	-50.26
522.76	S	-70.84	-74.24	5.83	-2.43	-13.00	-57.84
752.65	S	-67.20	-69.94	5.44	-2.70	-13.00	-54.20
934.04	S	-65.18	-67.39	5.39	-3.18	-13.00	-52.18

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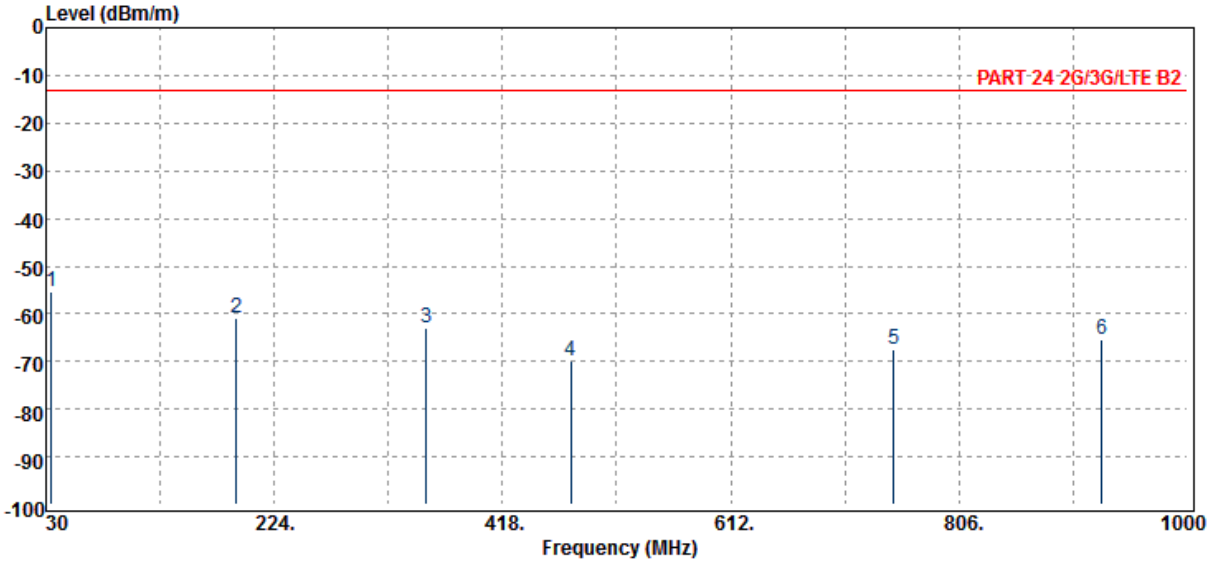
ARFCN	:CH 19193 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
83.35	S	-56.16	-55.29	0.20	-1.06	-13.00	-43.16
180.35	S	-65.75	-67.45	3.20	-1.50	-13.00	-52.75
361.74	S	-61.42	-65.34	5.88	-1.96	-13.00	-48.42
469.41	S	-67.08	-70.62	5.66	-2.12	-13.00	-54.08
742.95	S	-66.86	-69.62	5.45	-2.68	-13.00	-53.86
934.04	S	-63.12	-65.34	5.39	-3.18	-13.00	-50.12

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ARFCN	:CH 19193 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

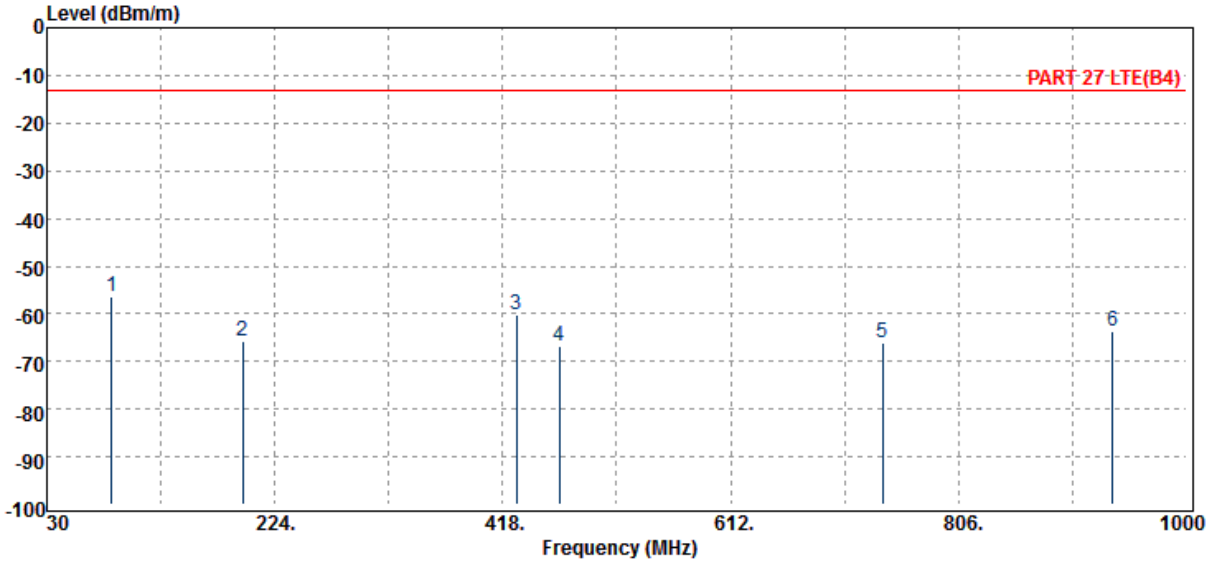


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-55.53	-43.23	-11.52	-0.78	-13.00	-42.53
191.99	S	-61.03	-64.42	4.92	-1.52	-13.00	-48.03
353.01	S	-63.13	-67.07	5.90	-1.97	-13.00	-50.13
476.20	S	-69.96	-73.52	5.72	-2.16	-13.00	-56.96
750.71	S	-67.31	-70.04	5.43	-2.70	-13.00	-54.31
927.25	S	-65.28	-67.51	5.40	-3.17	-13.00	-52.28

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Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 4 (The Worst Case)

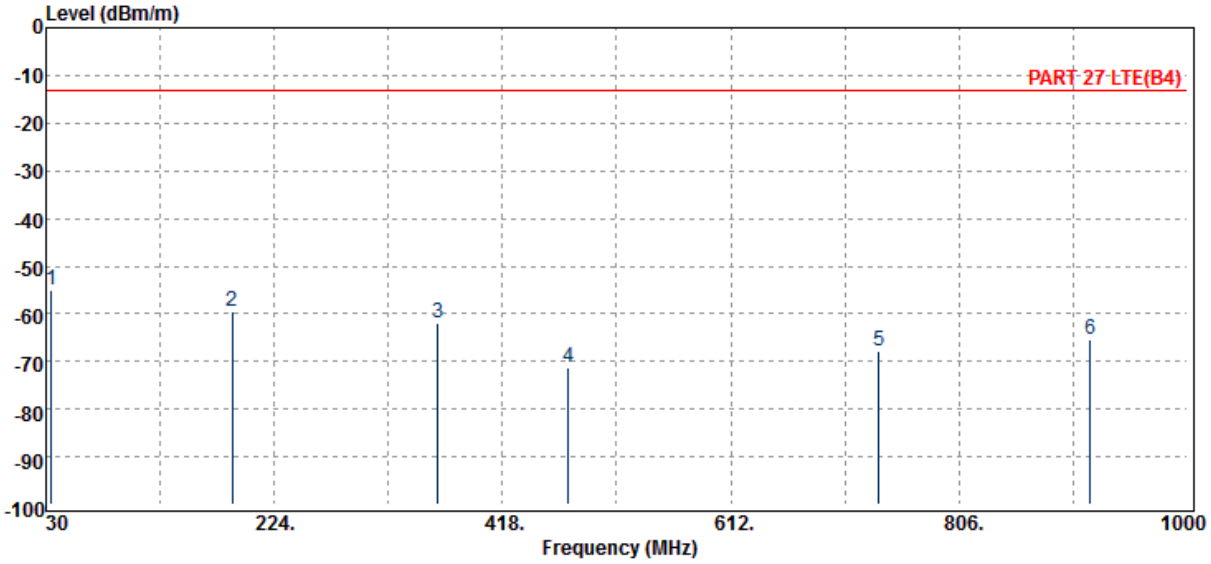
ARFCN	:CH 20025 16QAM BW 15 RB 1 74	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
85.29	S	-56.48	-56.06	0.65	-1.07	-13.00	-43.48
196.84	S	-65.79	-69.44	5.18	-1.53	-13.00	-52.79
429.64	S	-60.16	-63.76	5.60	-2.00	-13.00	-47.16
466.50	S	-66.61	-70.13	5.64	-2.11	-13.00	-53.61
741.01	S	-65.94	-68.71	5.45	-2.67	-13.00	-52.94
936.95	S	-63.72	-65.92	5.39	-3.18	-13.00	-50.72

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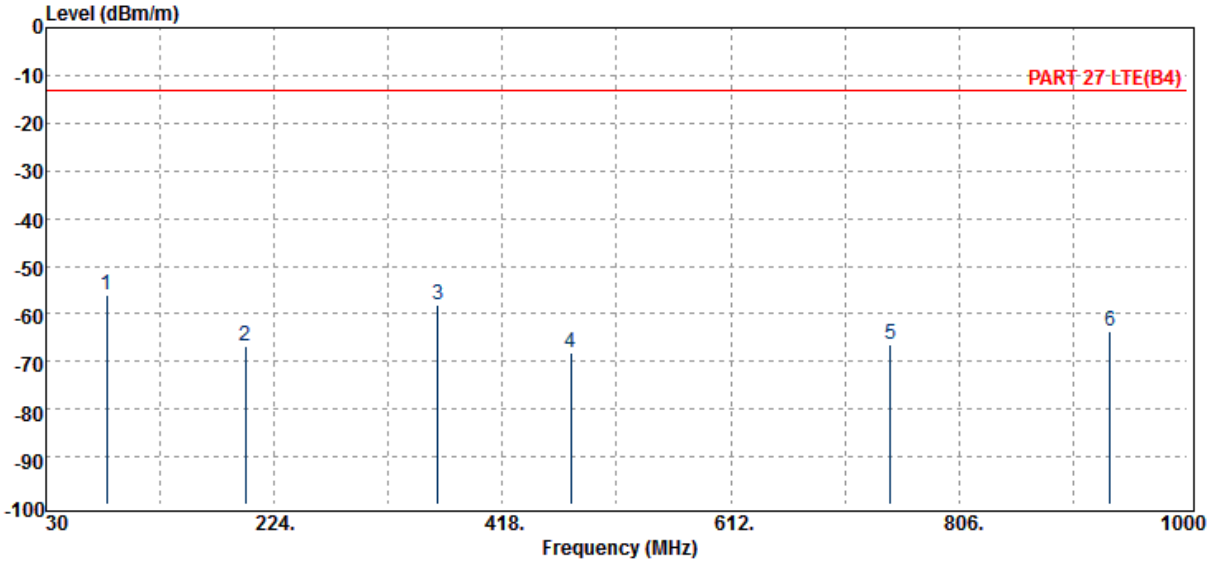
ARFCN	: CH 20025 16QAM BW 15 RB 1 74	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-55.06	-42.76	-11.52	-0.78	-13.00	-42.06
188.11	S	-59.63	-62.61	4.50	-1.51	-13.00	-46.63
362.71	S	-61.99	-65.90	5.87	-1.96	-13.00	-48.99
474.26	S	-71.15	-74.71	5.70	-2.15	-13.00	-58.15
738.10	S	-67.90	-70.68	5.45	-2.67	-13.00	-54.90
917.55	S	-65.28	-67.53	5.40	-3.16	-13.00	-52.28

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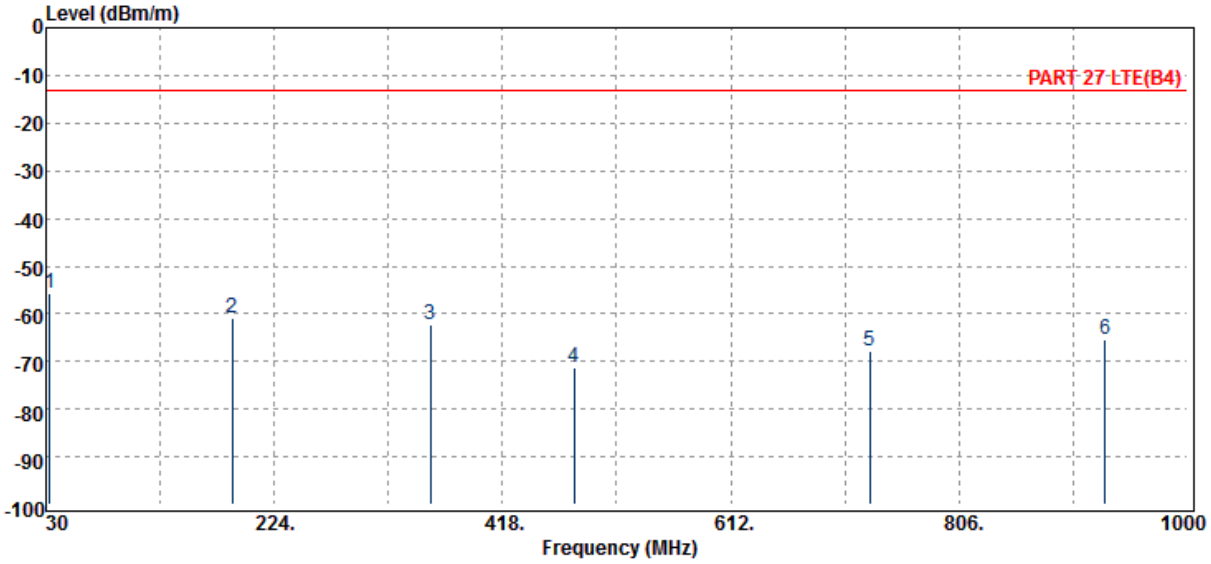
ARFCN	:CH 20175 16QAM BW 15 RB 1 74	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-56.11	-54.79	-0.26	-1.06	-13.00	-43.11
199.75	S	-66.70	-70.50	5.34	-1.53	-13.00	-53.70
362.71	S	-58.17	-62.08	5.87	-1.96	-13.00	-45.17
476.20	S	-68.14	-71.70	5.72	-2.16	-13.00	-55.14
747.80	S	-66.53	-69.28	5.44	-2.69	-13.00	-53.53
934.04	S	-63.50	-65.71	5.39	-3.18	-13.00	-50.50

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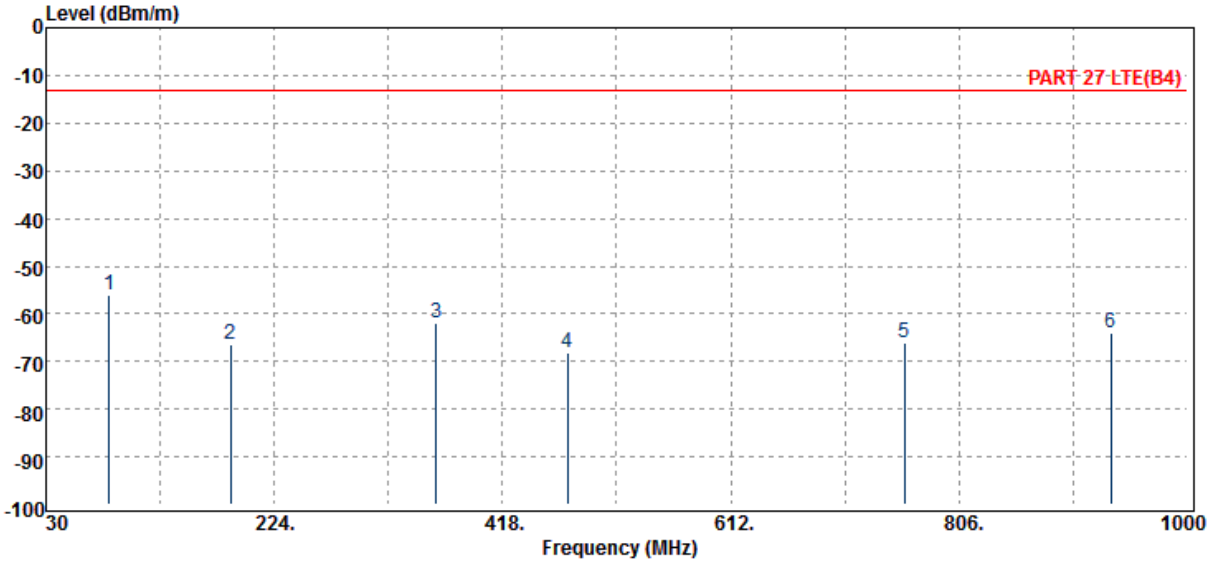
ARFCN	:CH 20175 16QAM BW 15 RB 1 74	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-55.77	-43.03	-11.98	-0.76	-13.00	-42.77
188.11	S	-60.74	-63.72	4.50	-1.51	-13.00	-47.74
356.89	S	-62.34	-66.26	5.89	-1.96	-13.00	-49.34
479.11	S	-71.22	-74.78	5.74	-2.18	-13.00	-58.22
730.34	S	-67.65	-70.48	5.47	-2.65	-13.00	-54.65
930.16	S	-65.35	-67.58	5.40	-3.17	-13.00	-52.35

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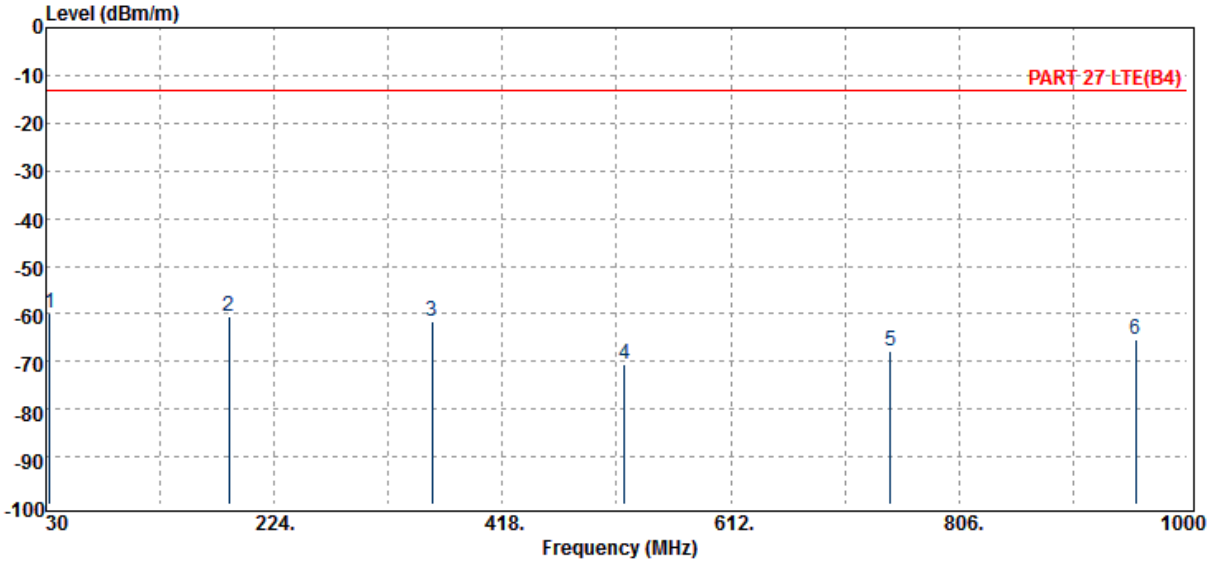
ARFCN	:CH 20325 16QAM BW 15 RB 1 74	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
83.35	S	-56.15	-55.28	0.20	-1.06	-13.00	-43.15
187.14	S	-66.55	-69.37	4.34	-1.51	-13.00	-53.55
361.74	S	-62.01	-65.93	5.88	-1.96	-13.00	-49.01
473.29	S	-68.30	-71.85	5.69	-2.14	-13.00	-55.30
759.44	S	-66.20	-68.95	5.46	-2.72	-13.00	-53.20
935.01	S	-64.06	-66.27	5.39	-3.18	-13.00	-51.06

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ARFCN	:CH 20325 16QAM BW 15 RB 1 74	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

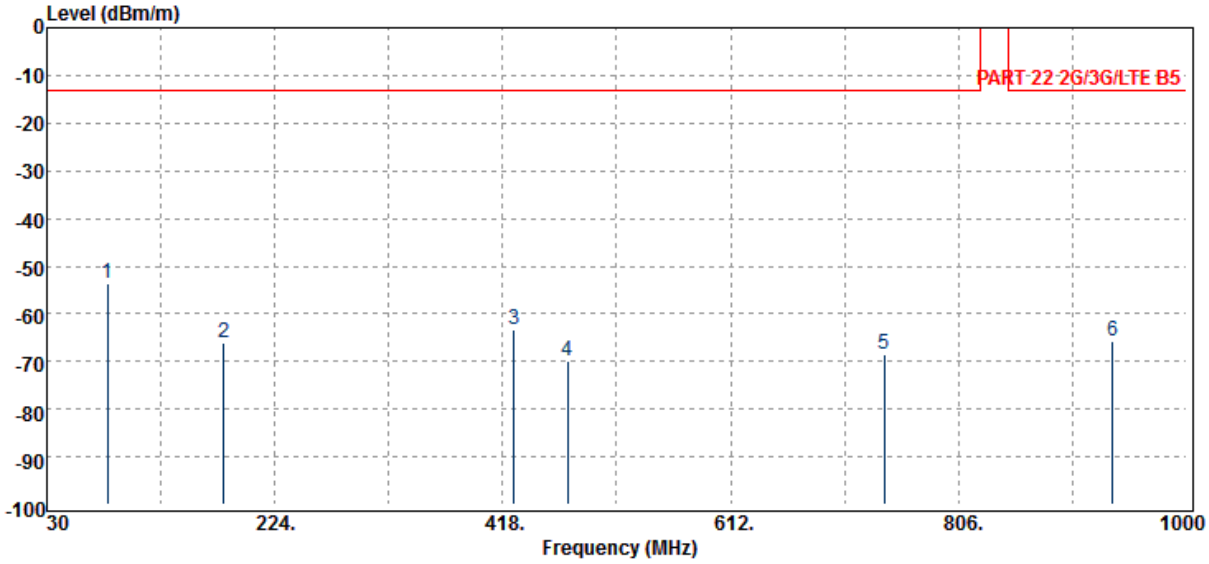


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-60.02	-47.27	-11.98	-0.76	-13.00	-47.02
185.20	S	-60.57	-63.07	4.01	-1.51	-13.00	-47.57
357.86	S	-61.60	-65.52	5.89	-1.96	-13.00	-48.60
521.79	S	-70.59	-74.00	5.83	-2.42	-13.00	-57.59
747.80	S	-67.78	-70.52	5.44	-2.69	-13.00	-54.78
956.35	S	-65.54	-67.29	4.96	-3.21	-13.00	-52.54

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 5 (The Worst Case)

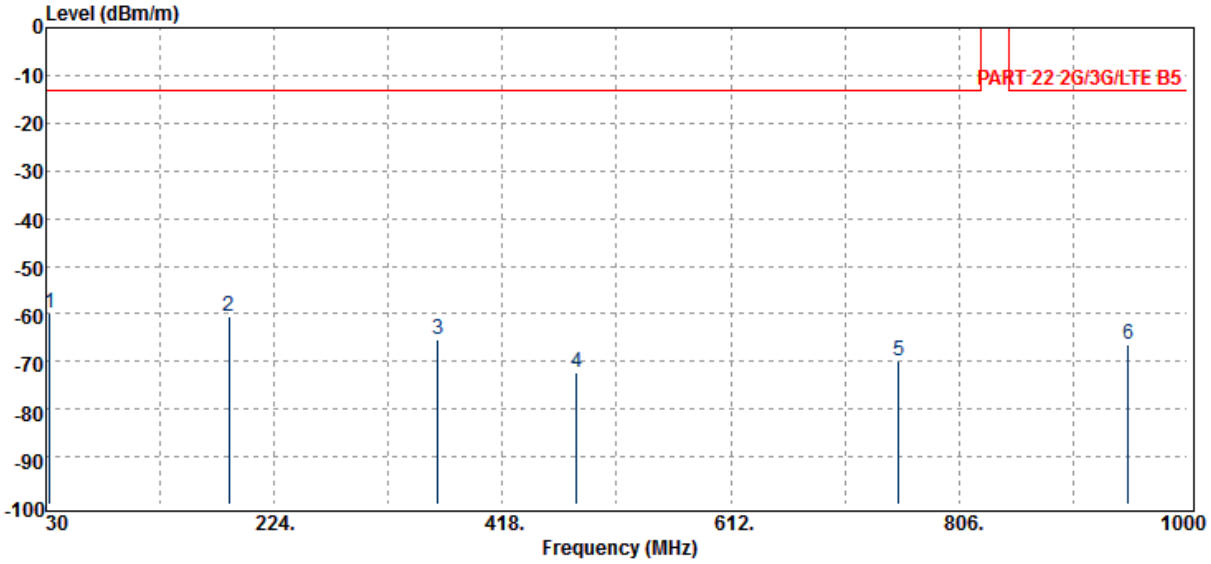
ARFCN	:CH 20407 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-53.74	-50.27	-2.41	-1.06	-13.00	-40.74
180.35	S	-66.04	-65.58	1.05	-1.50	-13.00	-53.04
427.70	S	-63.22	-64.69	3.46	-2.00	-13.00	-50.22
473.29	S	-69.77	-71.17	3.54	-2.14	-13.00	-56.77
742.95	S	-68.60	-69.21	3.30	-2.68	-13.00	-55.60
936.95	S	-65.68	-65.74	3.24	-3.18	-13.00	-52.68

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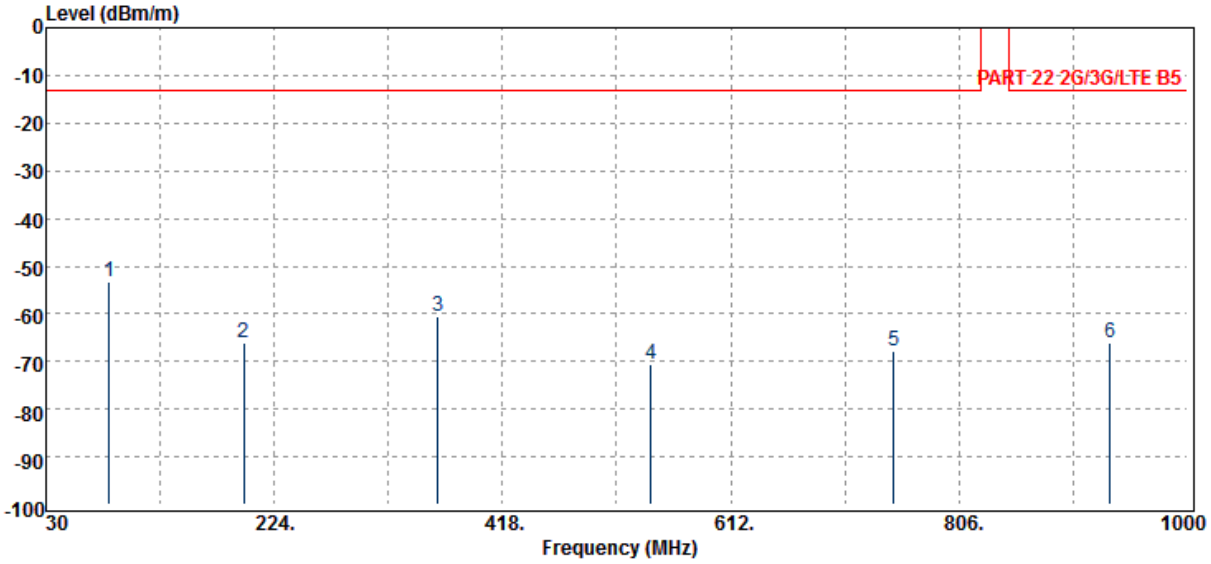
ARFCN	:CH 20407 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-59.87	-44.98	-14.13	-0.76	-13.00	-46.87
185.20	S	-60.52	-60.87	1.86	-1.51	-13.00	-47.52
362.71	S	-65.31	-67.07	3.72	-1.96	-13.00	-52.31
481.05	S	-72.16	-73.58	3.61	-2.19	-13.00	-59.16
754.59	S	-70.05	-70.64	3.30	-2.71	-13.00	-57.05
949.56	S	-66.31	-66.34	3.23	-3.20	-13.00	-53.31

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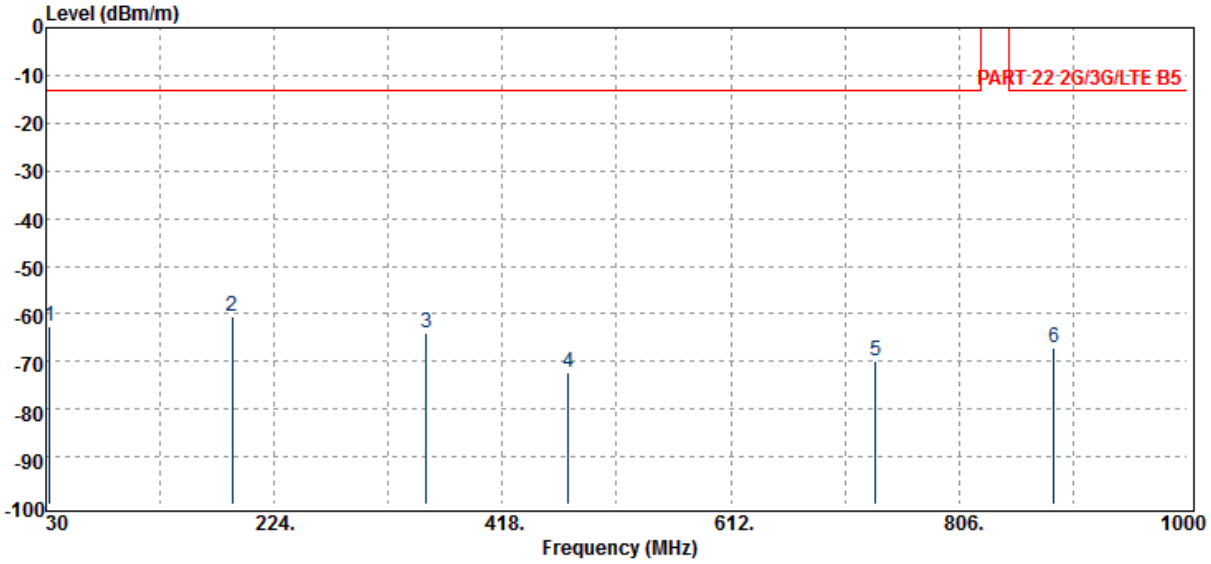
ARFCN	:CH 20525 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
83.35	S	-53.13	-50.11	-1.95	-1.06	-13.00	-40.13
197.81	S	-66.06	-67.61	3.08	-1.53	-13.00	-53.06
362.71	S	-60.59	-62.35	3.72	-1.96	-13.00	-47.59
544.10	S	-70.56	-71.63	3.61	-2.54	-13.00	-57.56
750.71	S	-67.97	-68.55	3.28	-2.70	-13.00	-54.97
934.04	S	-65.95	-66.01	3.24	-3.18	-13.00	-52.95

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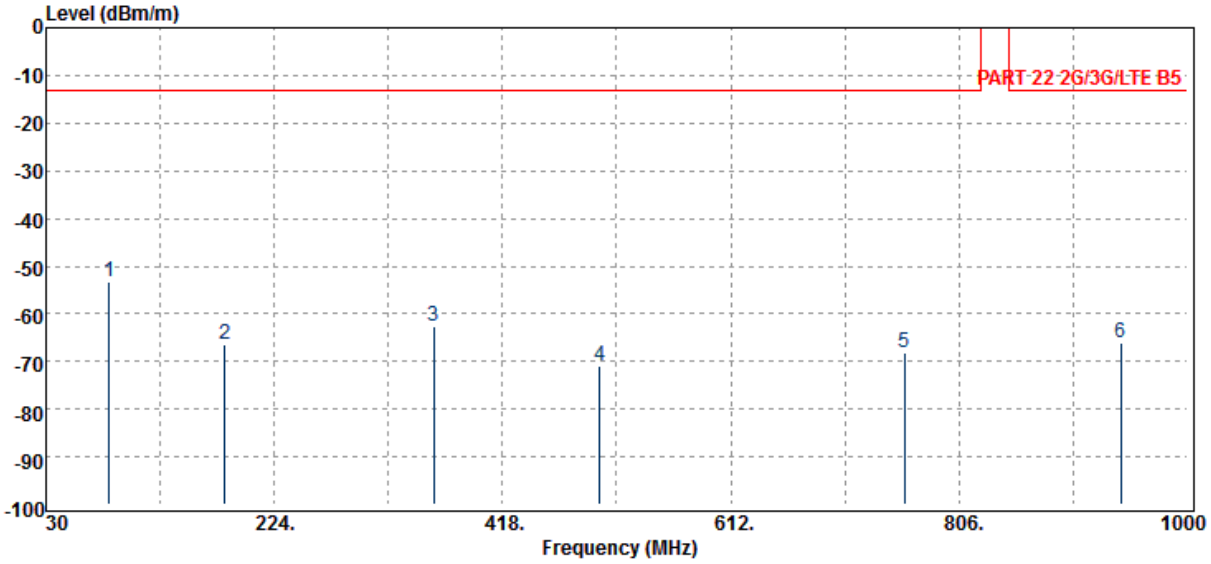
ARFCN	:CH 20525 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-62.50	-47.61	-14.13	-0.76	-13.00	-49.50
188.11	S	-60.69	-61.52	2.35	-1.51	-13.00	-47.69
353.01	S	-63.87	-65.66	3.75	-1.97	-13.00	-50.87
474.26	S	-72.25	-73.65	3.55	-2.15	-13.00	-59.25
735.19	S	-70.04	-70.69	3.31	-2.66	-13.00	-57.04
886.51	S	-67.17	-67.38	3.32	-3.10	-13.00	-54.17

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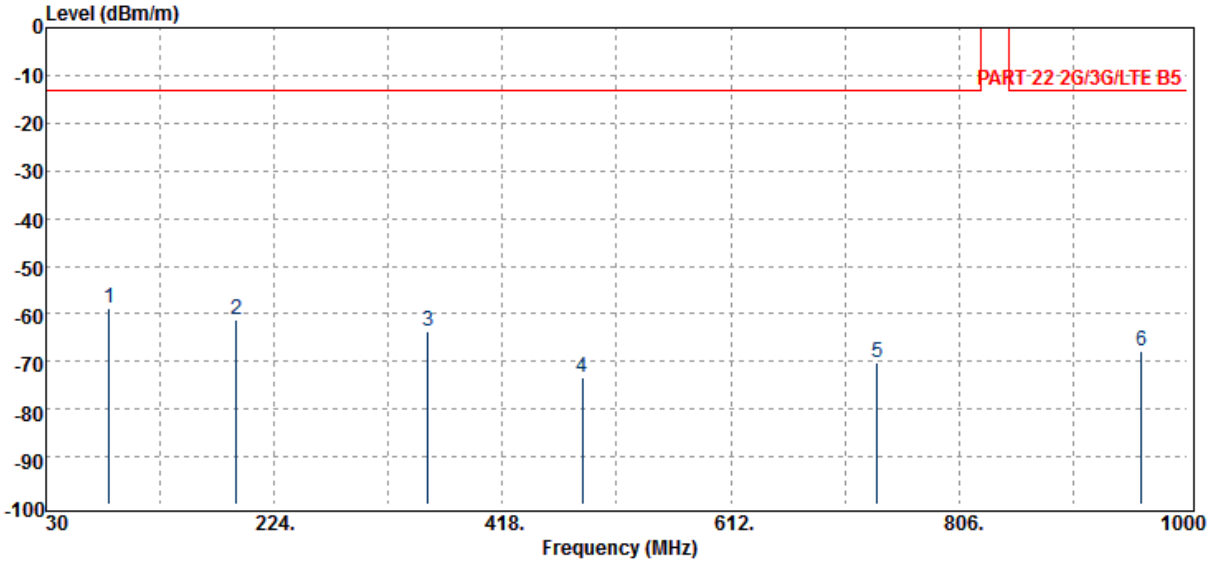
ARFCN	:CH 20643 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
83.35	S	-53.32	-50.30	-1.95	-1.06	-13.00	-40.32
182.29	S	-66.59	-66.46	1.38	-1.50	-13.00	-53.59
359.80	S	-62.54	-64.31	3.73	-1.96	-13.00	-49.54
500.45	S	-70.78	-72.23	3.76	-2.30	-13.00	-57.78
759.44	S	-68.34	-68.93	3.31	-2.72	-13.00	-55.34
943.74	S	-66.01	-66.05	3.24	-3.19	-13.00	-53.01

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ARFCN	:CH 20643 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

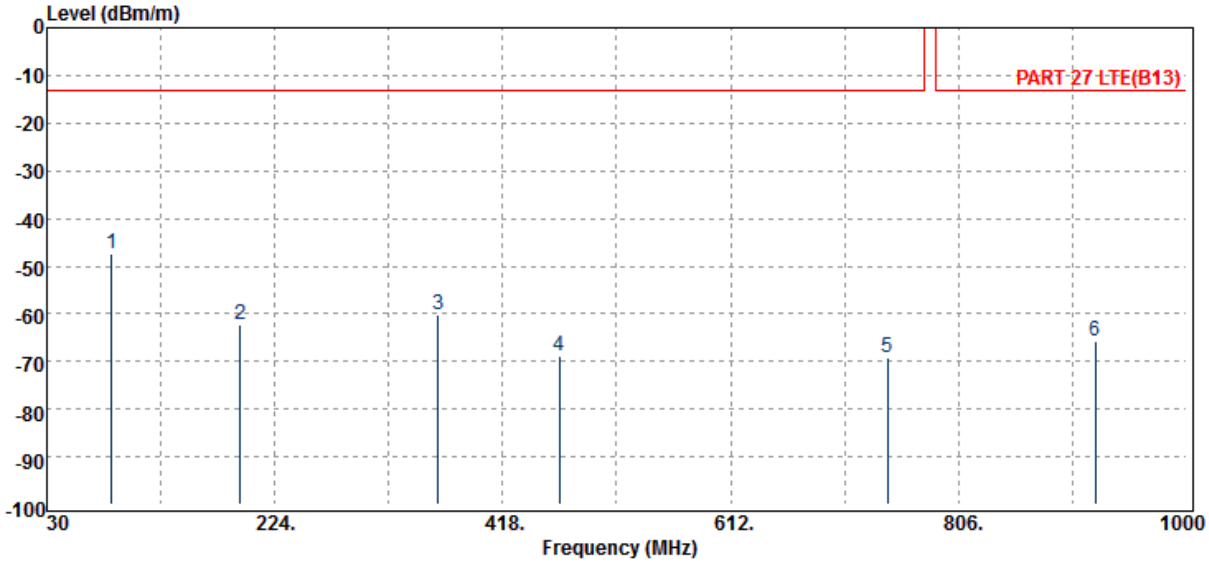


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
83.35	S	-58.96	-55.95	-1.95	-1.06	-13.00	-45.96
191.99	S	-61.31	-62.56	2.77	-1.52	-13.00	-48.31
354.95	S	-63.67	-65.46	3.75	-1.97	-13.00	-50.67
485.90	S	-73.35	-74.77	3.65	-2.22	-13.00	-60.35
736.16	S	-70.16	-70.81	3.31	-2.66	-13.00	-57.16
961.20	S	-67.77	-67.05	2.48	-3.21	-13.00	-54.77

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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(The Worst Case)

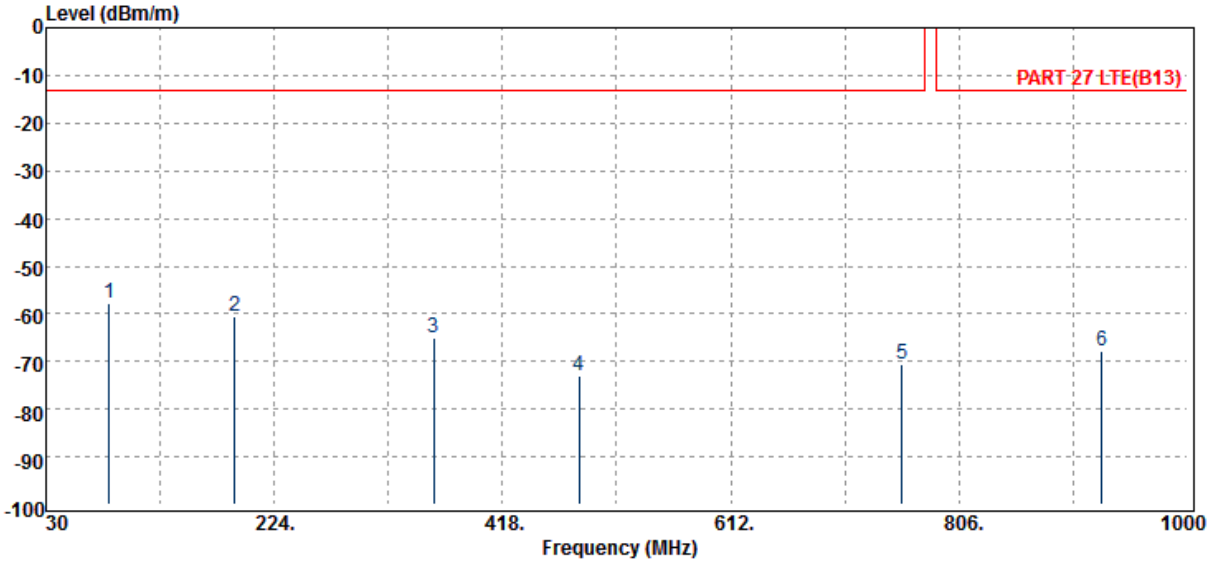
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
85.29	S	-47.36	-44.79	-1.50	-1.07	-13.00	-34.36
194.90	S	-62.13	-63.53	2.93	-1.53	-13.00	-49.13
362.71	S	-60.16	-61.92	3.72	-1.96	-13.00	-47.16
466.50	S	-68.76	-70.14	3.49	-2.11	-13.00	-55.76
745.86	S	-69.17	-69.77	3.29	-2.69	-13.00	-56.17
922.40	S	-65.58	-65.66	3.25	-3.16	-13.00	-52.58

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ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

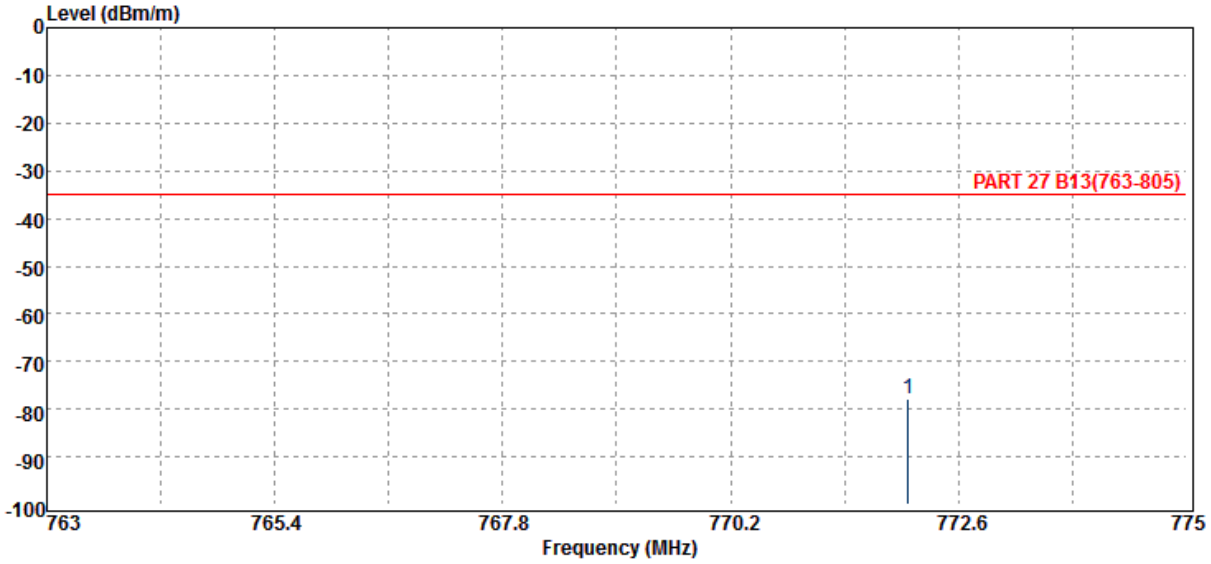


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
83.35	S	-57.77	-54.75	-1.95	-1.06	-13.00	-44.77
190.05	S	-60.69	-61.83	2.66	-1.52	-13.00	-47.69
359.80	S	-64.89	-66.66	3.73	-1.96	-13.00	-51.89
482.99	S	-73.04	-74.46	3.62	-2.20	-13.00	-60.04
757.50	S	-70.42	-71.01	3.31	-2.71	-13.00	-57.42
927.25	S	-67.73	-67.81	3.25	-3.17	-13.00	-54.73

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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(763MHz-755MHz)

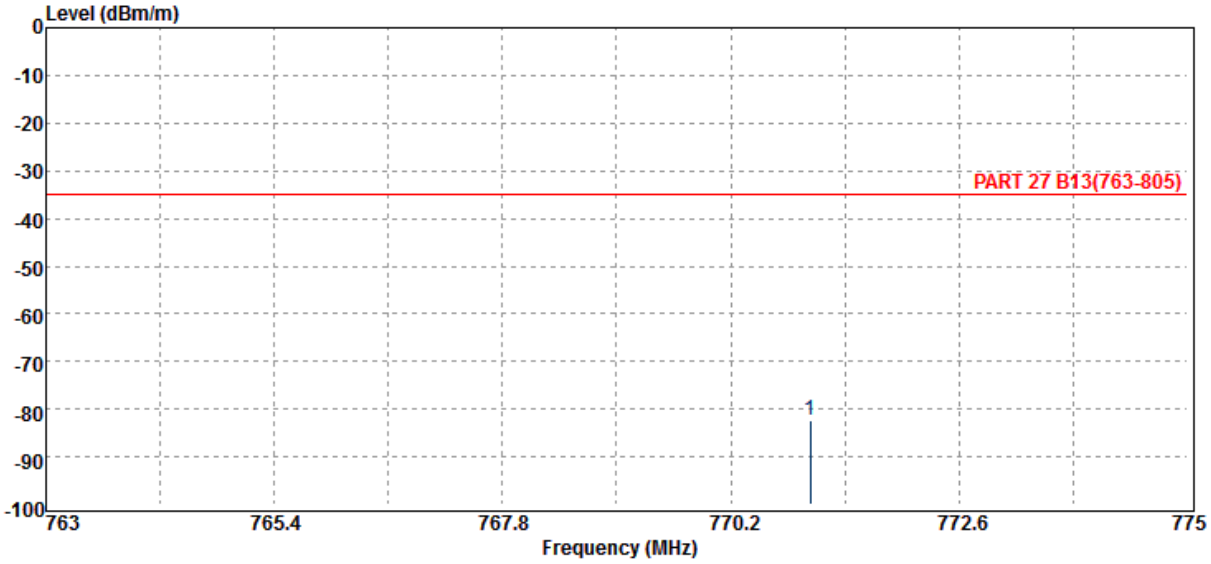
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
772.07	H	-77.93	-78.53	3.35	-2.75	-35.00	-42.93

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ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

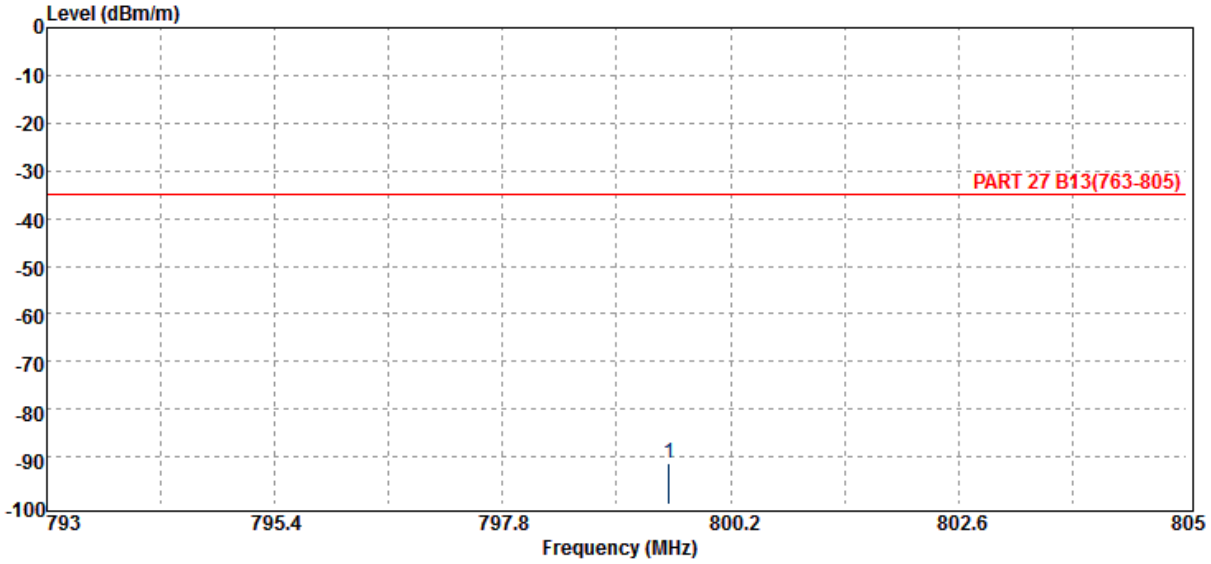


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
771.04	H	-82.41	-83.02	3.35	-2.75	-35.00	-47.41

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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(793MHz-805MHz)

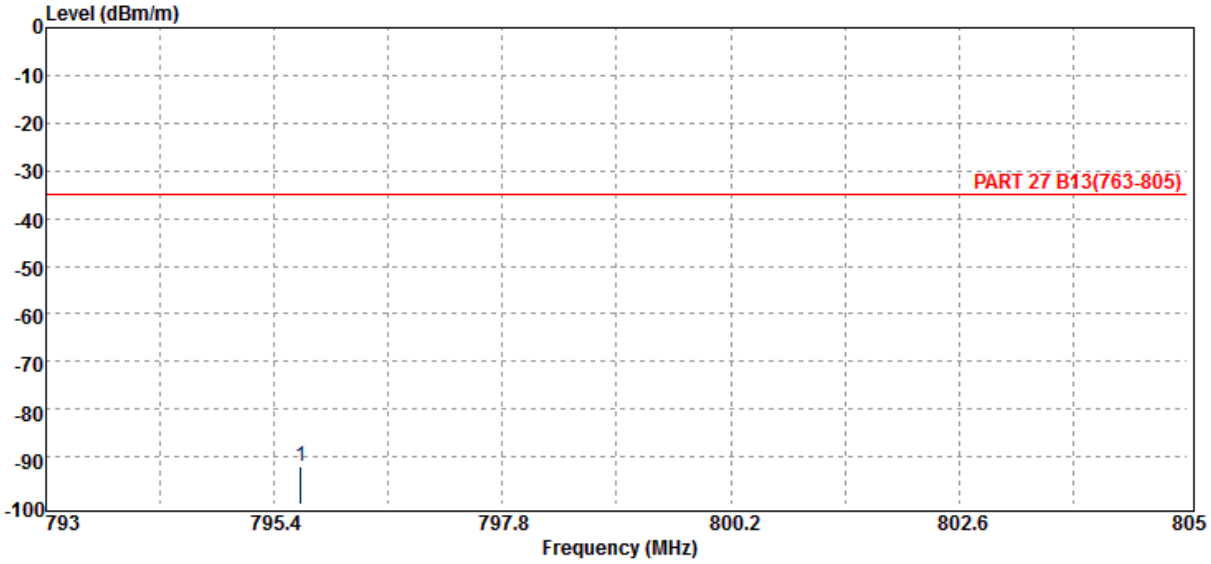
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
799.55	H	-91.41	-92.00	3.44	-2.85	-35.00	-56.41

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ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

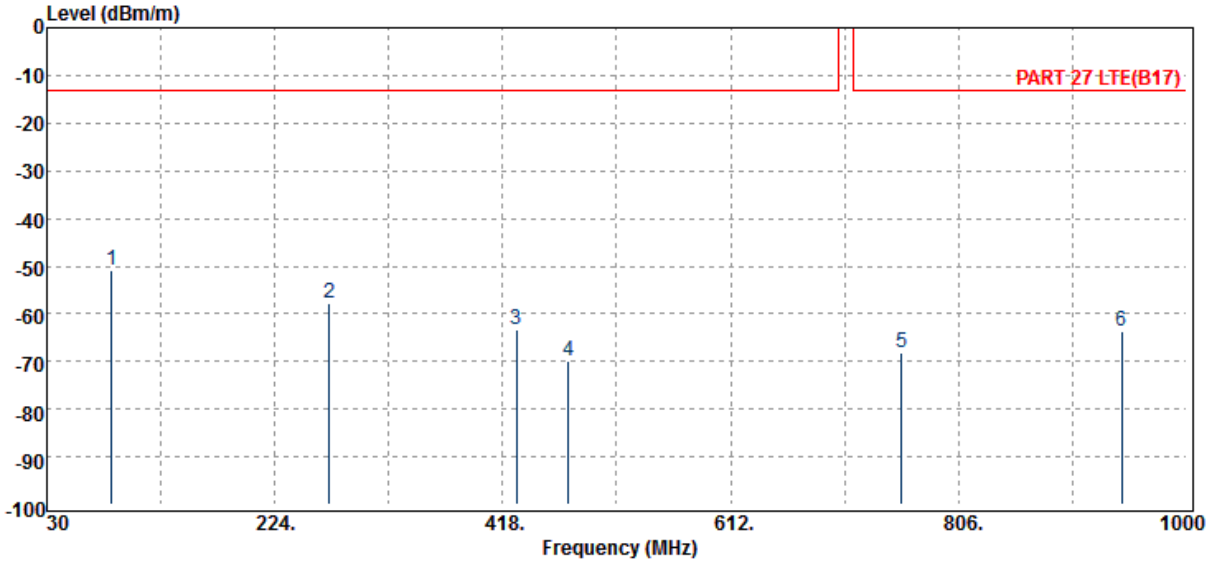


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
795.68	H	-92.14	-92.73	3.43	-2.84	-35.00	-57.14

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (The Worst Case)

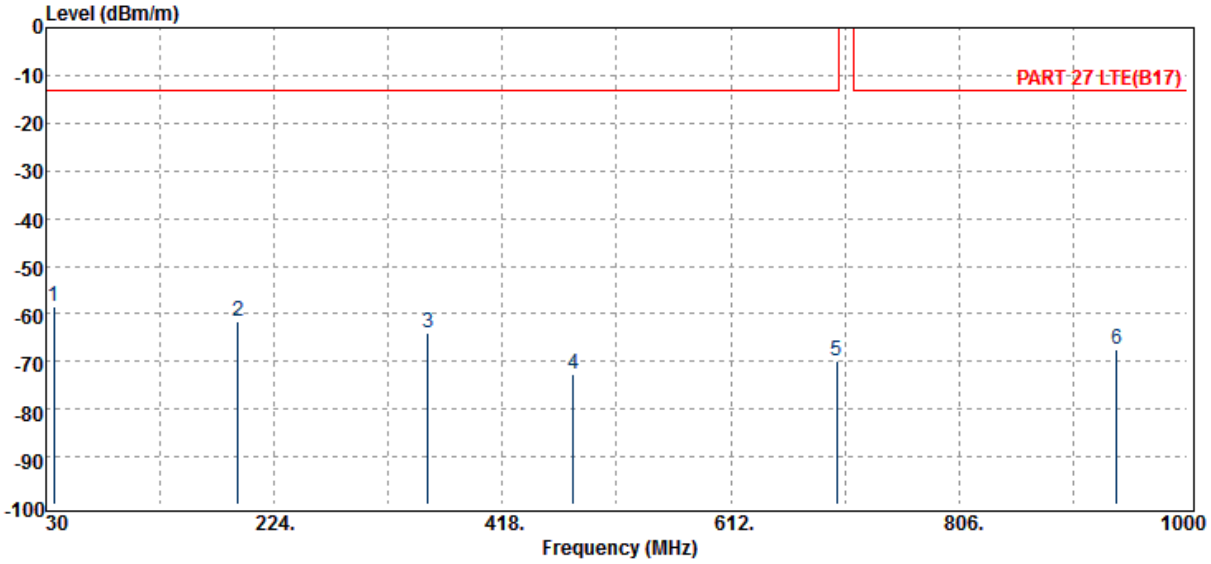
ARFCN	:CH 23755 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
85.29	S	-50.78	-48.21	-1.50	-1.07	-13.00	-37.78
270.56	S	-57.70	-59.60	3.59	-1.69	-13.00	-44.70
429.64	S	-63.23	-64.68	3.45	-2.00	-13.00	-50.23
474.26	S	-70.06	-71.47	3.55	-2.15	-13.00	-57.06
757.50	S	-68.22	-68.82	3.31	-2.71	-13.00	-55.22
944.71	S	-63.61	-63.65	3.24	-3.20	-13.00	-50.61

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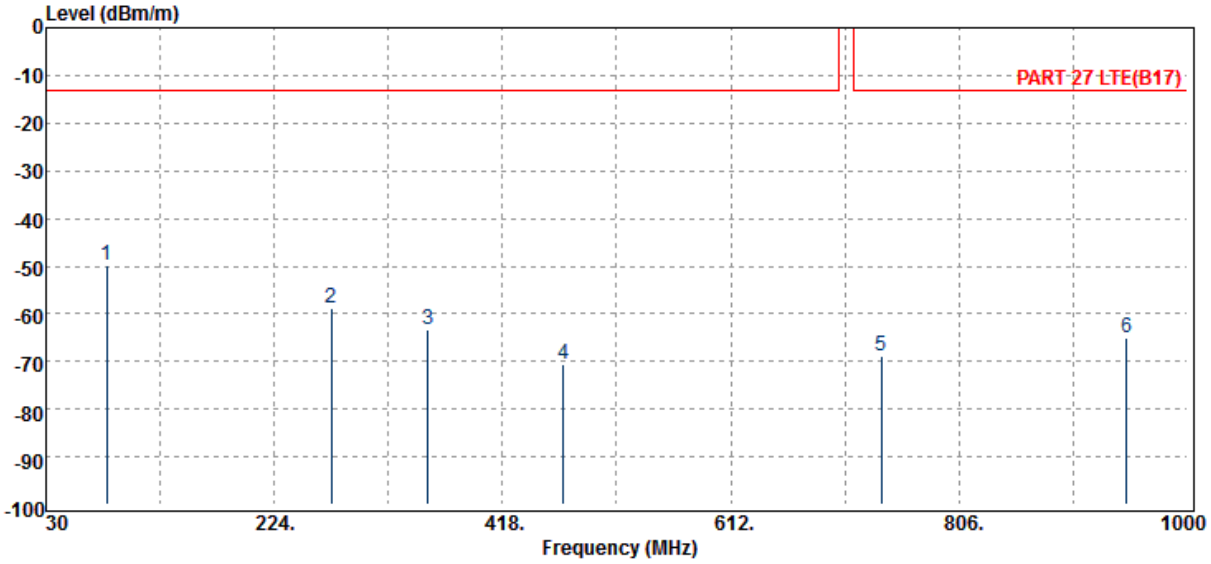
ARFCN	:CH 23755 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-58.55	-44.44	-13.32	-0.80	-13.00	-45.55
192.96	S	-61.63	-62.92	2.82	-1.52	-13.00	-48.63
354.95	S	-63.93	-65.71	3.75	-1.97	-13.00	-50.93
478.14	S	-72.52	-73.93	3.58	-2.17	-13.00	-59.52
702.21	S	-69.73	-70.50	3.38	-2.61	-13.00	-56.73
939.86	S	-67.58	-67.63	3.24	-3.19	-13.00	-54.58

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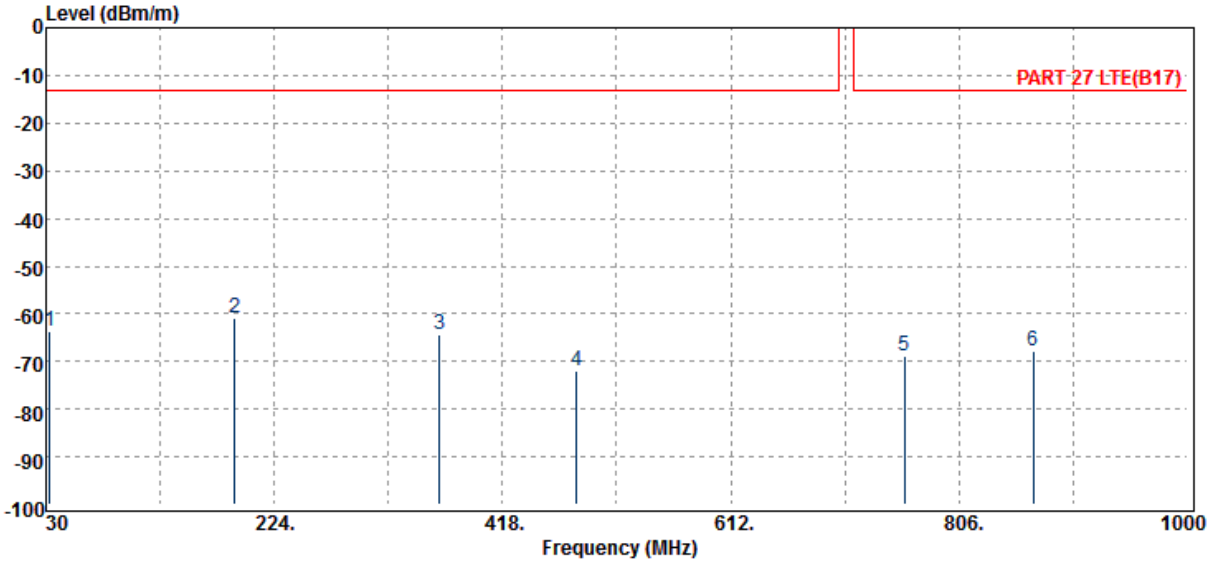
ARFCN	:CH 23790 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-49.87	-46.40	-2.41	-1.06	-13.00	-36.87
272.50	S	-58.91	-60.75	3.54	-1.70	-13.00	-45.91
354.95	S	-63.24	-65.02	3.75	-1.97	-13.00	-50.24
469.41	S	-70.58	-71.97	3.51	-2.12	-13.00	-57.58
740.04	S	-68.72	-69.35	3.30	-2.67	-13.00	-55.72
948.59	S	-65.13	-65.17	3.24	-3.20	-13.00	-52.13

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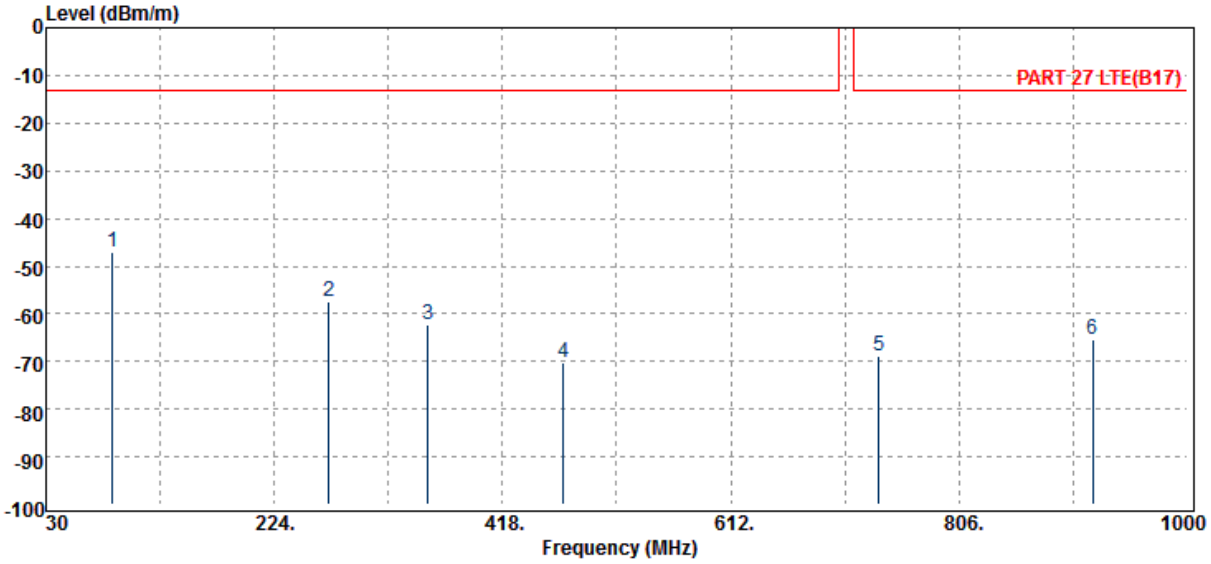
ARFCN	:CH 23790 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-63.70	-48.81	-14.13	-0.76	-13.00	-50.70
190.05	S	-60.84	-61.98	2.66	-1.52	-13.00	-47.84
364.65	S	-64.47	-66.23	3.72	-1.96	-13.00	-51.47
481.05	S	-71.89	-73.31	3.61	-2.19	-13.00	-58.89
759.44	S	-68.75	-69.34	3.31	-2.72	-13.00	-55.75
869.05	S	-67.68	-68.01	3.39	-3.06	-13.00	-54.68

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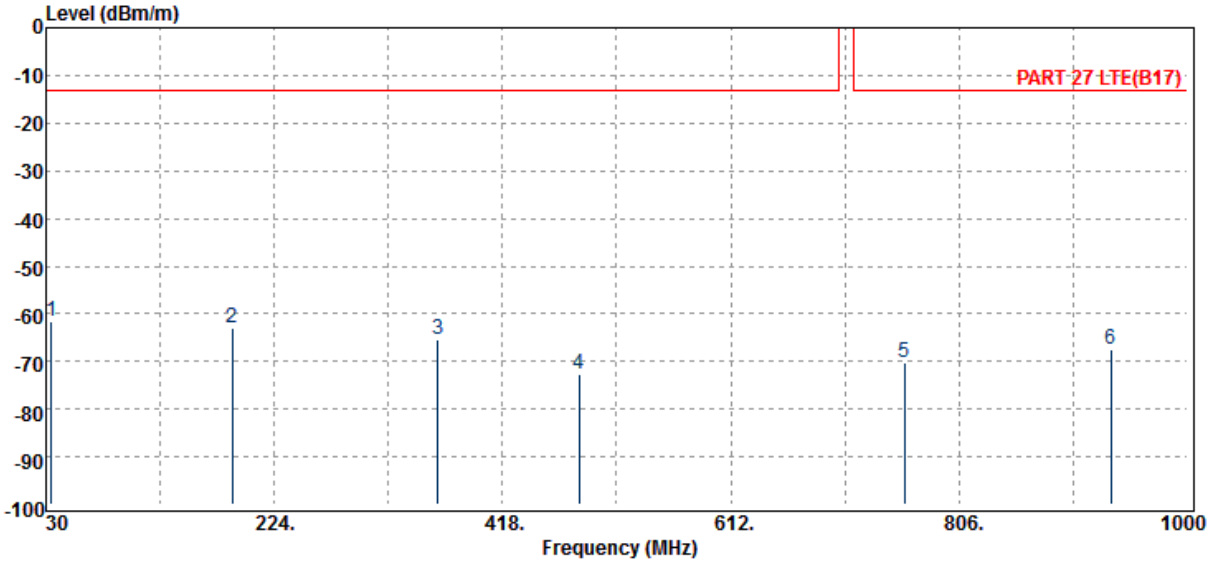
ARFCN	:CH 23825 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
86.26	S	-46.91	-44.57	-1.27	-1.08	-13.00	-33.91
270.56	S	-57.57	-59.46	3.59	-1.69	-13.00	-44.57
354.95	S	-62.23	-64.01	3.75	-1.97	-13.00	-49.23
469.41	S	-70.39	-71.78	3.51	-2.12	-13.00	-57.39
738.10	S	-68.79	-69.42	3.30	-2.67	-13.00	-55.79
919.49	S	-65.50	-65.59	3.25	-3.16	-13.00	-52.50

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ARFCN	:CH 23825 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

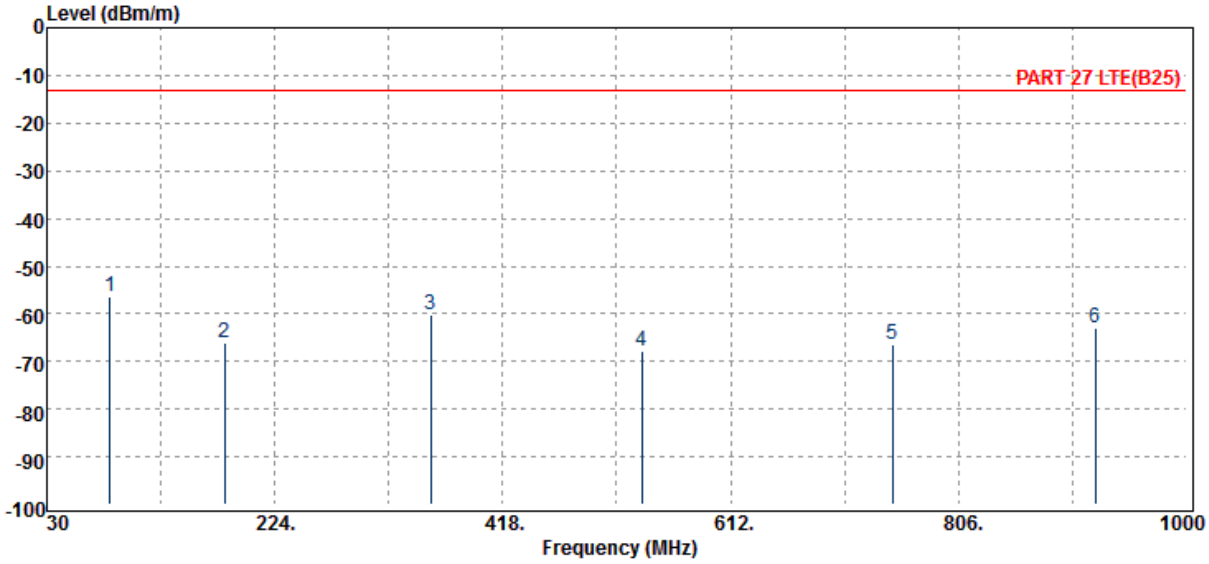


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
34.85	S	-61.57	-47.12	-13.67	-0.78	-13.00	-48.57
188.11	S	-62.97	-63.80	2.35	-1.51	-13.00	-49.97
362.71	S	-65.26	-67.02	3.72	-1.96	-13.00	-52.26
482.99	S	-72.56	-73.98	3.62	-2.20	-13.00	-59.56
759.44	S	-70.24	-70.84	3.31	-2.72	-13.00	-57.24
935.01	S	-67.62	-67.68	3.24	-3.18	-13.00	-54.62

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 25 (The Worst Case)

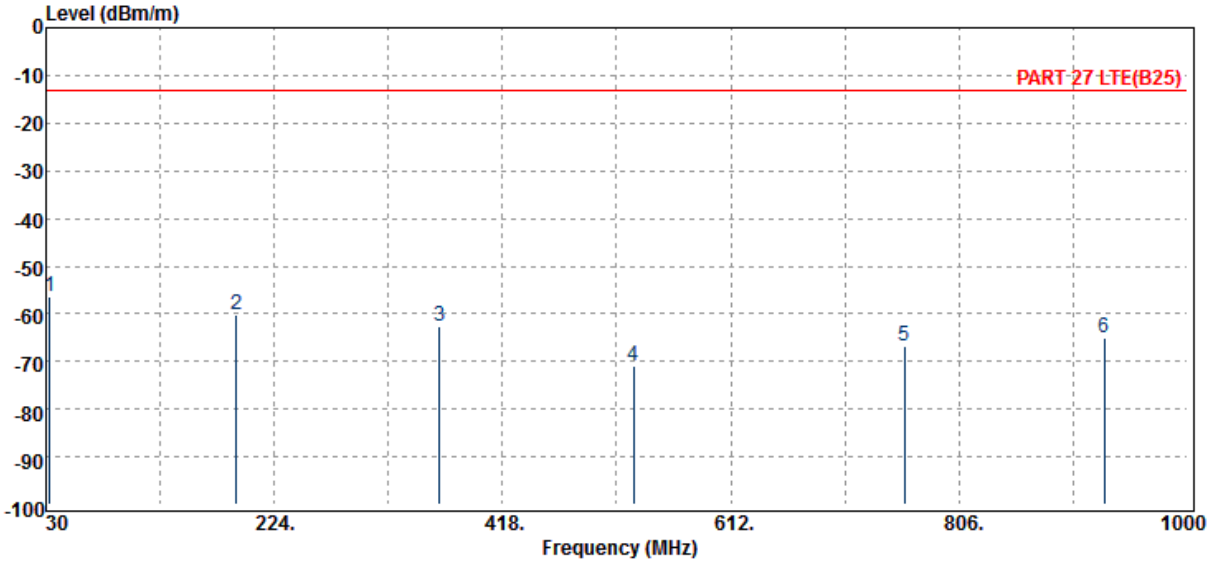
ARFCN	:CH 26047 16QAM BW 1.4 RB1 5	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
83.35	S	-56.35	-55.48	0.20	-1.06	-13.00	-43.35
181.32	S	-66.23	-68.09	3.36	-1.50	-13.00	-53.23
356.89	S	-60.13	-64.05	5.89	-1.96	-13.00	-47.13
536.34	S	-67.67	-70.95	5.78	-2.50	-13.00	-54.67
749.74	S	-66.37	-69.10	5.43	-2.70	-13.00	-53.37
922.40	S	-62.88	-65.12	5.40	-3.16	-13.00	-49.88

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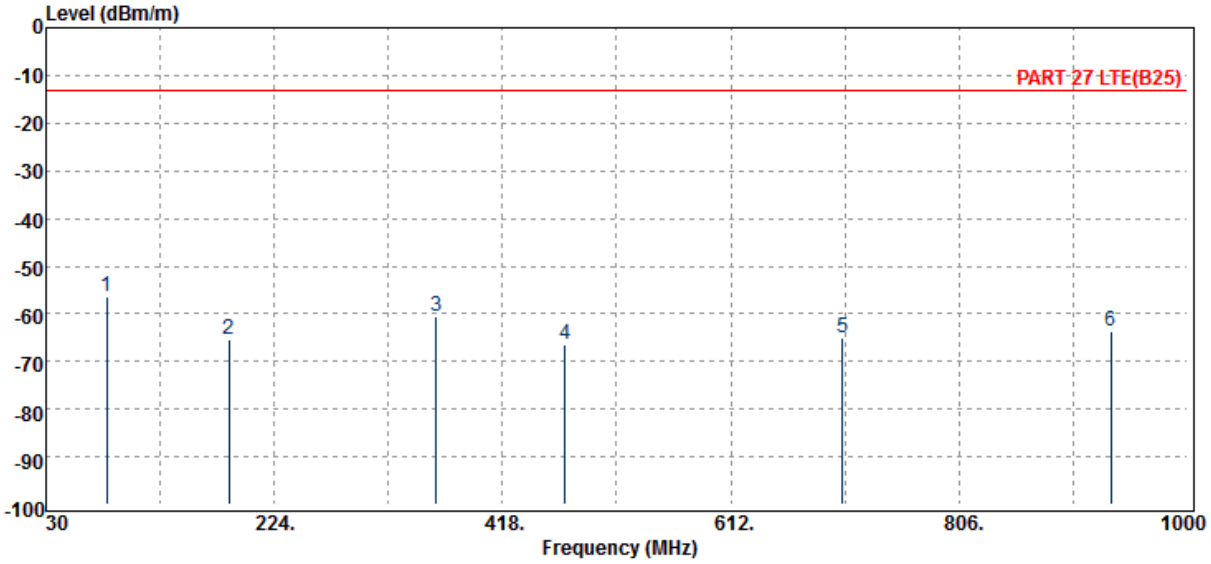
ARFCN	:CH 26047 16QAM BW 1.4 RB1 5	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-56.53	-43.78	-11.98	-0.76	-13.00	-43.53
191.99	S	-60.25	-63.65	4.92	-1.52	-13.00	-47.25
364.65	S	-62.59	-66.50	5.87	-1.96	-13.00	-49.59
529.55	S	-70.98	-74.32	5.81	-2.47	-13.00	-57.98
759.44	S	-66.93	-69.68	5.46	-2.72	-13.00	-53.93
929.19	S	-65.09	-67.31	5.40	-3.17	-13.00	-52.09

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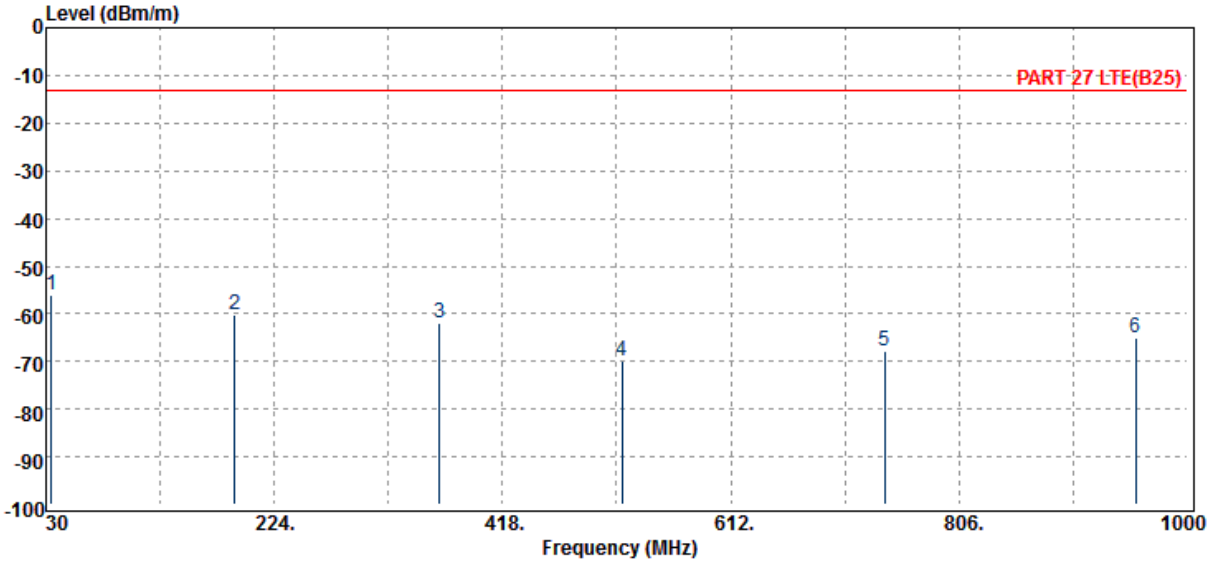
ARFCN	:CH 26365 16QAM BW 1.4 RB1 5	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-56.44	-55.12	-0.26	-1.06	-13.00	-43.44
185.20	S	-65.53	-68.04	4.01	-1.51	-13.00	-52.53
361.74	S	-60.57	-64.48	5.88	-1.96	-13.00	-47.57
471.35	S	-66.29	-69.83	5.68	-2.13	-13.00	-53.29
707.06	S	-65.10	-68.02	5.52	-2.60	-13.00	-52.10
935.01	S	-63.71	-65.92	5.39	-3.18	-13.00	-50.71

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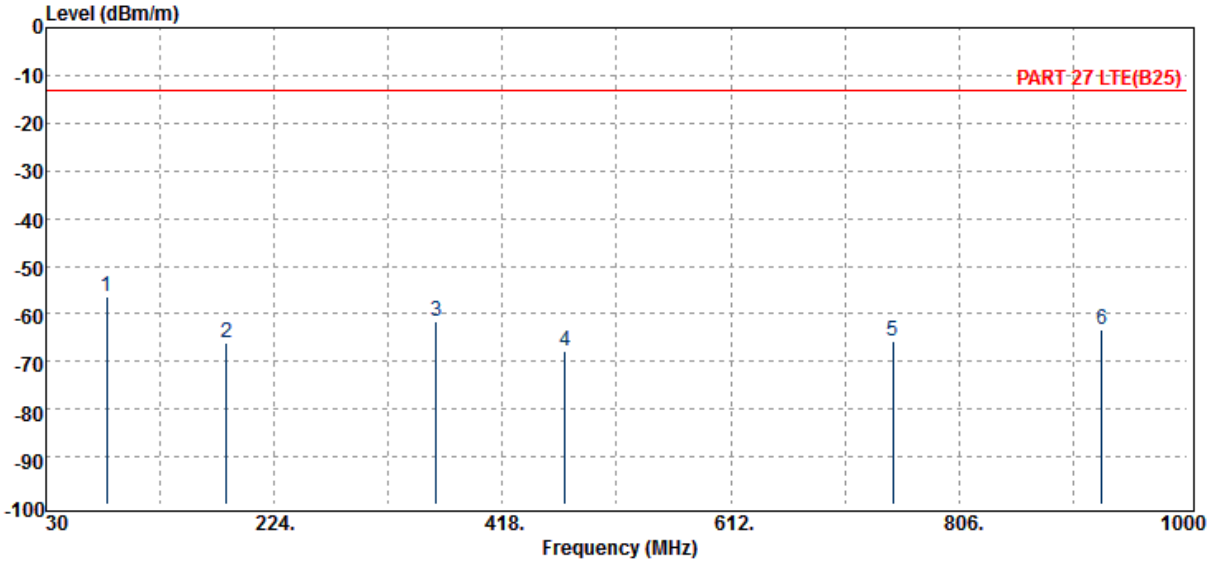
ARFCN	:CH 26365 16QAM BW 1.4 RB1 5	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-56.13	-43.82	-11.52	-0.78	-13.00	-43.13
190.05	S	-60.11	-63.40	4.81	-1.52	-13.00	-47.11
364.65	S	-61.77	-65.67	5.87	-1.96	-13.00	-48.77
519.85	S	-69.77	-73.19	5.84	-2.41	-13.00	-56.77
742.95	S	-67.94	-70.70	5.45	-2.68	-13.00	-54.94
956.35	S	-65.04	-66.79	4.96	-3.21	-13.00	-52.04

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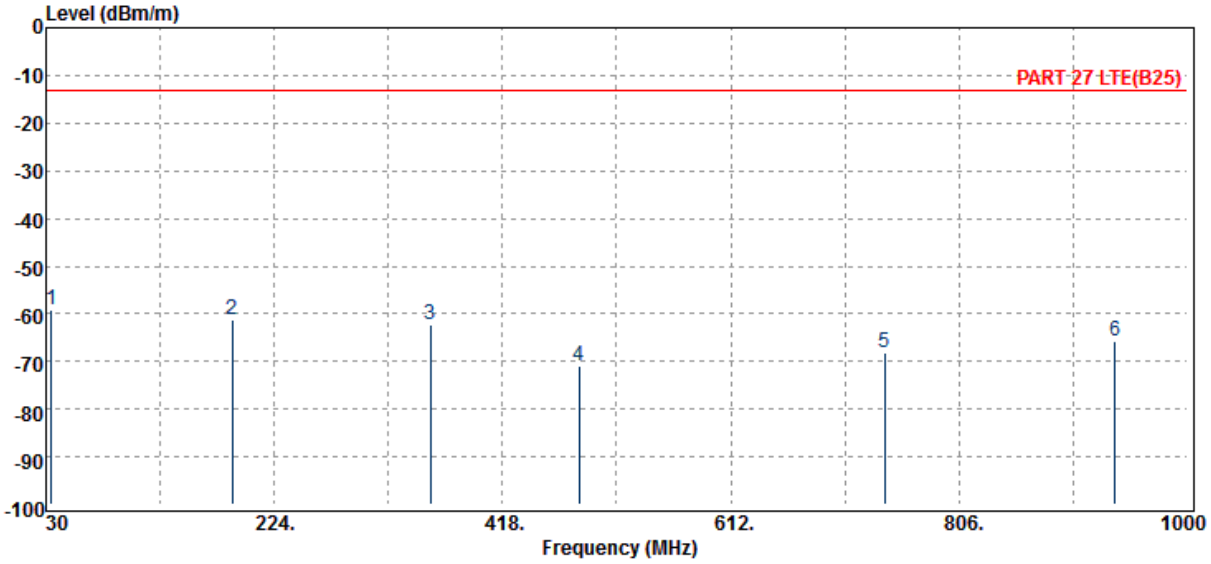
ARFCN	:CH 26683 16QAM BW 1.4 RB1 5	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1914.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-56.28	-54.96	-0.26	-1.06	-13.00	-43.28
183.26	S	-66.14	-68.32	3.69	-1.51	-13.00	-53.14
361.74	S	-61.46	-65.37	5.88	-1.96	-13.00	-48.46
471.35	S	-67.65	-71.20	5.68	-2.13	-13.00	-54.65
749.74	S	-65.63	-68.36	5.43	-2.70	-13.00	-52.63
927.25	S	-63.33	-65.56	5.40	-3.17	-13.00	-50.33

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ARFCN	:CH 26683 16QAM BW 1.4 RB1 5	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1914.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



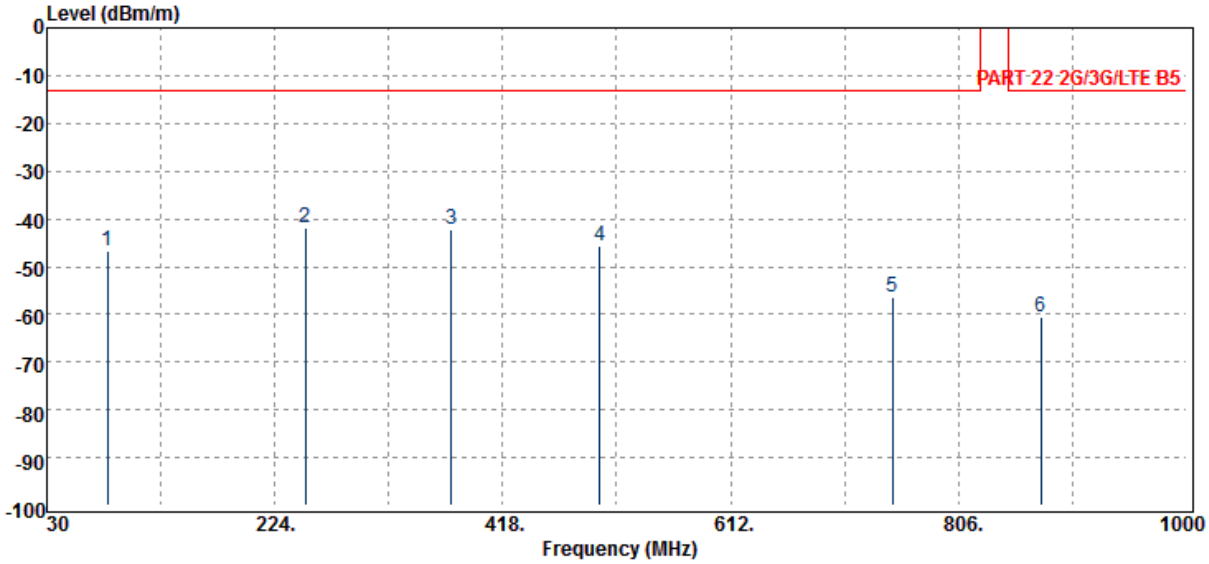
Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-59.18	-46.87	-11.52	-0.78	-13.00	-46.18
188.11	S	-61.35	-64.34	4.50	-1.51	-13.00	-48.35
356.89	S	-62.21	-66.14	5.89	-1.96	-13.00	-49.21
482.99	S	-71.05	-74.62	5.77	-2.20	-13.00	-58.05
742.95	S	-68.30	-71.06	5.45	-2.68	-13.00	-55.30
938.89	S	-65.74	-67.94	5.39	-3.19	-13.00	-52.74

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***Antenna Part No.: TG.30.8111 Apex**

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

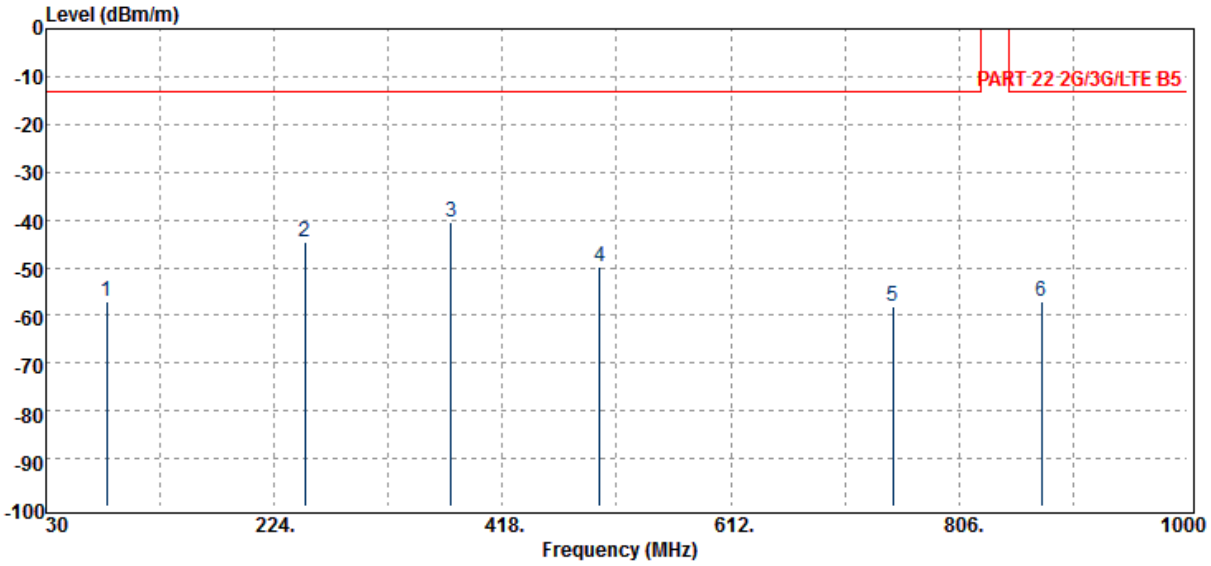
ARFCN	:CH 128	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-46.78	-43.31	-2.41	-1.06	-13.00	-33.78
250.19	S	-41.95	-43.76	3.44	-1.64	-13.00	-28.95
374.35	S	-42.08	-43.82	3.69	-1.96	-13.00	-29.08
500.45	S	-45.57	-47.02	3.76	-2.30	-13.00	-32.57
749.74	S	-56.42	-57.01	3.28	-2.70	-13.00	-43.42
875.84	S	-60.42	-60.70	3.36	-3.08	-13.00	-47.42

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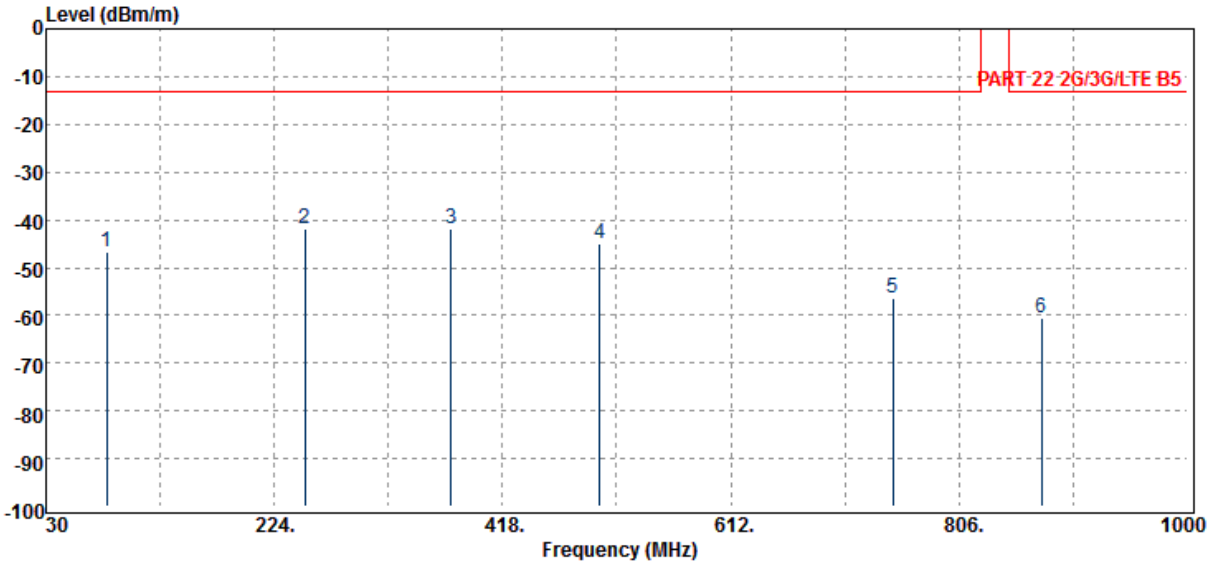
ARFCN	:CH 128	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-57.02	-53.55	-2.41	-1.06	-13.00	-44.02
250.19	S	-44.75	-46.55	3.44	-1.64	-13.00	-31.75
374.35	S	-40.48	-42.21	3.69	-1.96	-13.00	-27.48
500.45	S	-49.88	-51.33	3.76	-2.30	-13.00	-36.88
749.74	S	-58.12	-58.70	3.28	-2.70	-13.00	-45.12
875.84	S	-57.17	-57.45	3.36	-3.08	-13.00	-44.17

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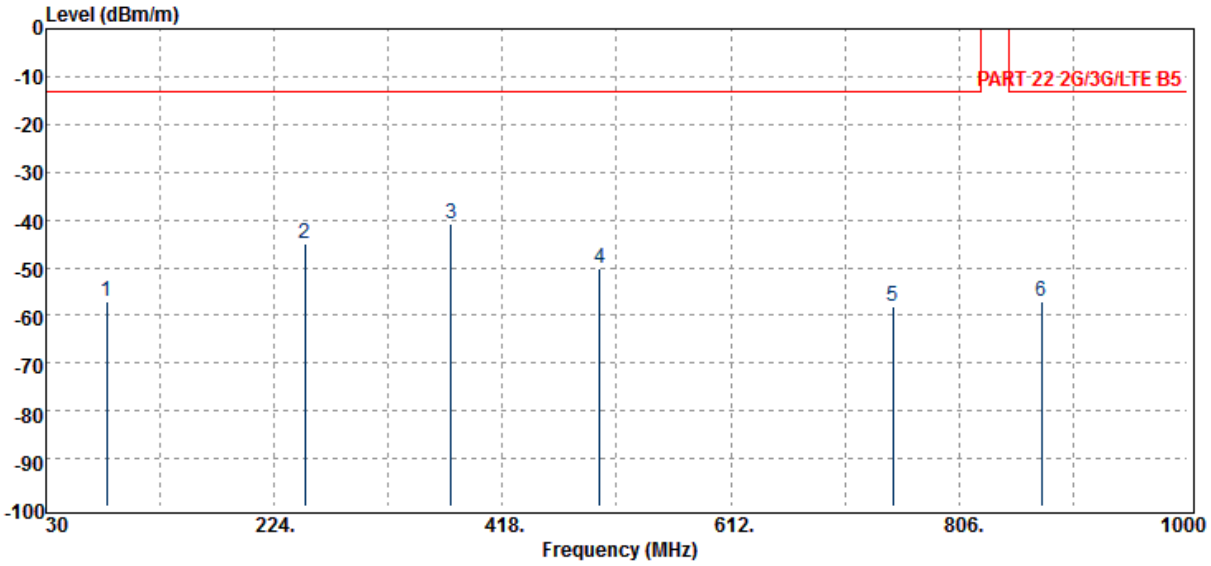
ARFCN	:CH 190	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-46.74	-43.27	-2.41	-1.06	-13.00	-33.74
250.19	S	-41.98	-43.78	3.44	-1.64	-13.00	-28.98
374.35	S	-41.99	-43.72	3.69	-1.96	-13.00	-28.99
500.45	S	-45.12	-46.57	3.76	-2.30	-13.00	-32.12
749.74	S	-56.34	-56.93	3.28	-2.70	-13.00	-43.34
875.84	S	-60.62	-60.90	3.36	-3.08	-13.00	-47.62

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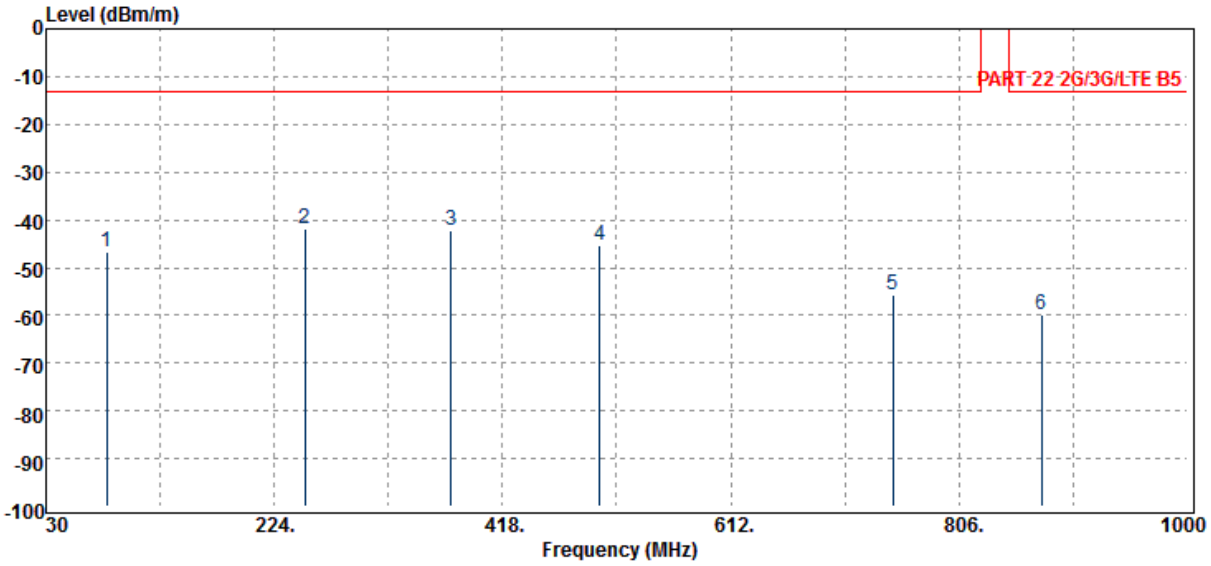
ARFCN	:CH 190	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-57.25	-53.78	-2.41	-1.06	-13.00	-44.25
250.19	S	-44.82	-46.62	3.44	-1.64	-13.00	-31.82
374.35	S	-40.70	-42.44	3.69	-1.96	-13.00	-27.70
500.45	S	-50.11	-51.56	3.76	-2.30	-13.00	-37.11
749.74	S	-58.16	-58.75	3.28	-2.70	-13.00	-45.16
875.84	S	-57.14	-57.42	3.36	-3.08	-13.00	-44.14

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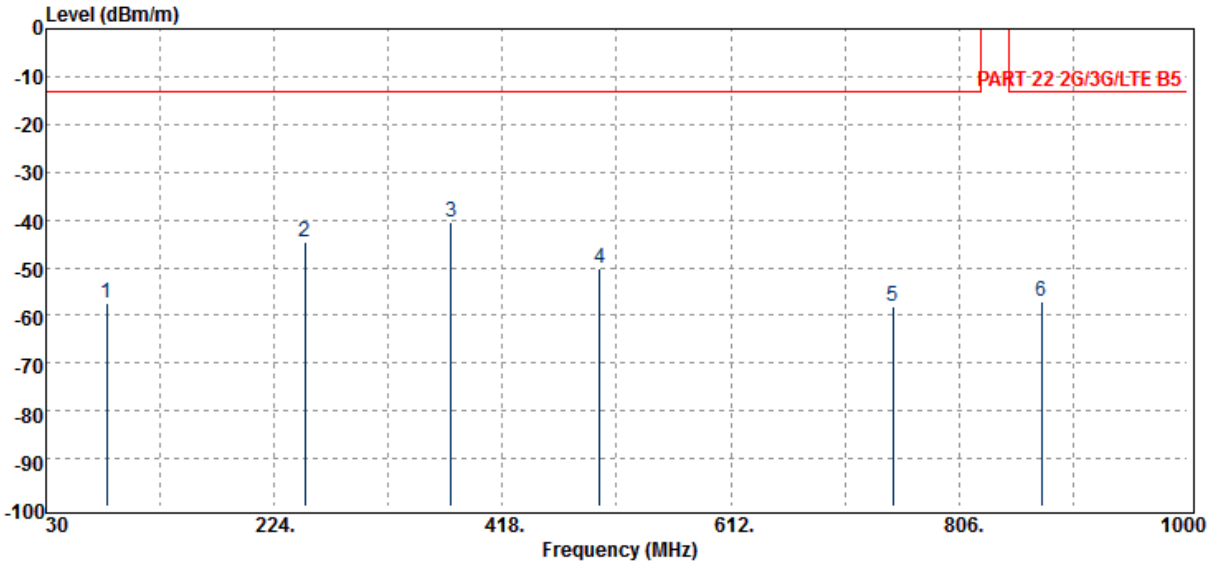
ARFCN	:CH 251	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-46.86	-43.39	-2.41	-1.06	-13.00	-33.86
250.19	S	-41.80	-43.60	3.44	-1.64	-13.00	-28.80
374.35	S	-42.39	-44.12	3.69	-1.96	-13.00	-29.39
500.45	S	-45.43	-46.89	3.76	-2.30	-13.00	-32.43
749.74	S	-55.78	-56.37	3.28	-2.70	-13.00	-42.78
875.84	S	-59.82	-60.11	3.36	-3.08	-13.00	-46.82

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ARFCN	:CH 251	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

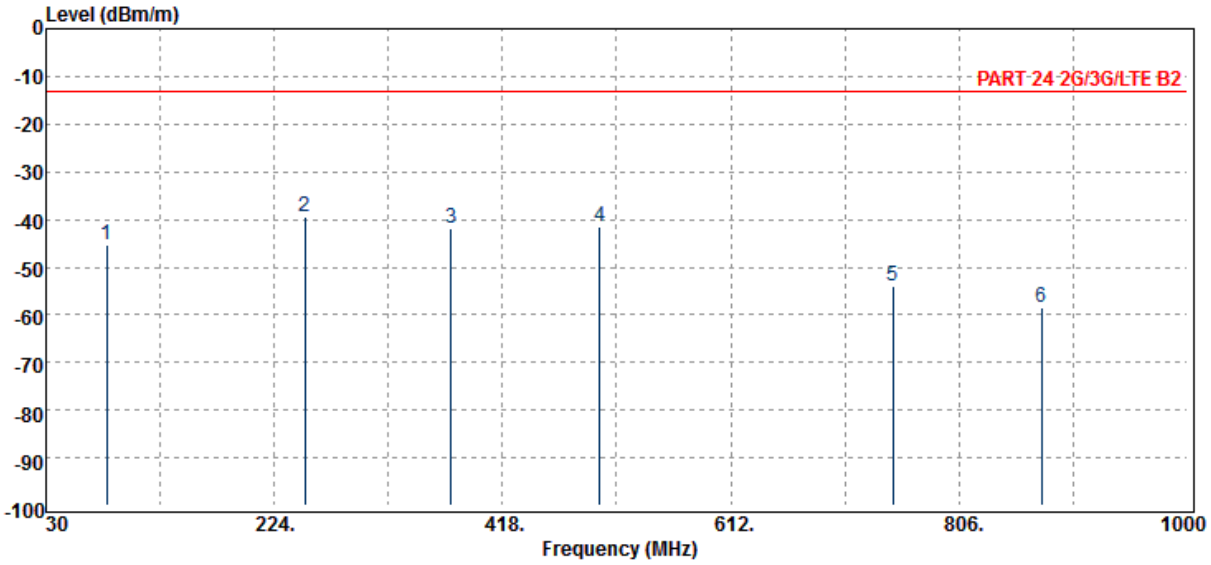


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-57.59	-54.12	-2.41	-1.06	-13.00	-44.59
250.19	S	-44.70	-46.51	3.44	-1.64	-13.00	-31.70
374.35	S	-40.51	-42.24	3.69	-1.96	-13.00	-27.51
500.45	S	-50.20	-51.65	3.76	-2.30	-13.00	-37.20
749.74	S	-58.18	-58.77	3.28	-2.70	-13.00	-45.18
875.84	S	-57.09	-57.37	3.36	-3.08	-13.00	-44.09

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

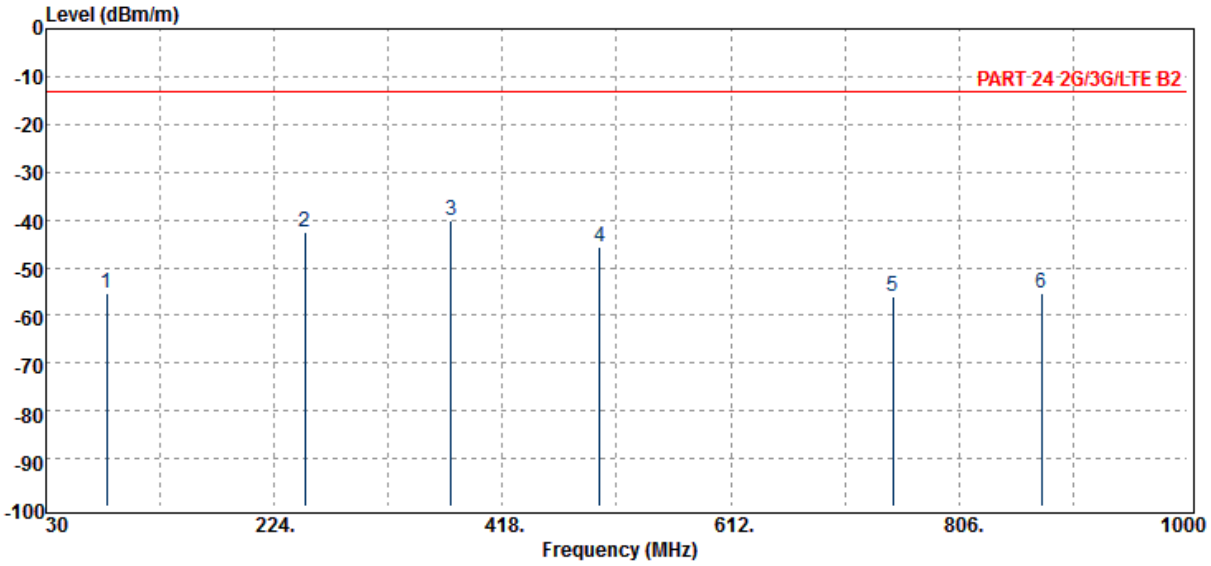
ARFCN	:CH 512	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-45.38	-44.06	-0.26	-1.06	-13.00	-32.38
250.19	S	-39.58	-43.54	5.59	-1.64	-13.00	-26.58
374.35	S	-41.96	-45.84	5.84	-1.96	-13.00	-28.96
500.45	S	-41.56	-45.16	5.91	-2.30	-13.00	-28.56
749.74	S	-54.02	-56.75	5.43	-2.70	-13.00	-41.02
875.84	S	-58.36	-60.79	5.51	-3.08	-13.00	-45.36

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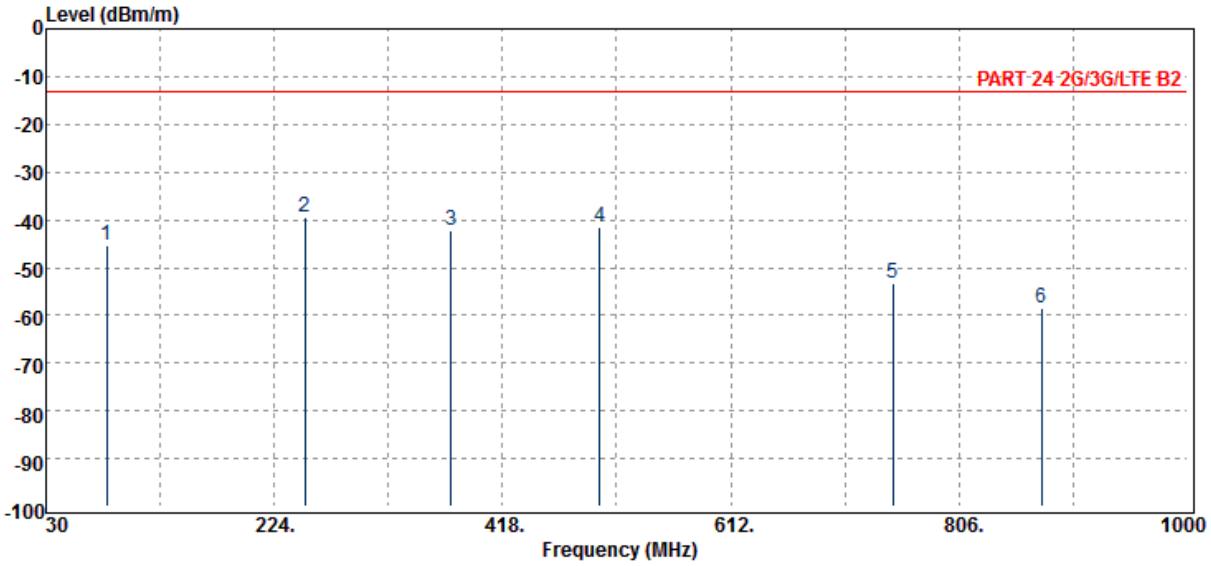
ARFCN	:CH 512	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-55.36	-54.04	-0.26	-1.06	-13.00	-42.36
250.19	S	-42.39	-46.35	5.59	-1.64	-13.00	-29.39
374.35	S	-40.18	-44.06	5.84	-1.96	-13.00	-27.18
500.45	S	-45.55	-49.15	5.91	-2.30	-13.00	-32.55
749.74	S	-55.89	-58.62	5.43	-2.70	-13.00	-42.89
875.84	S	-55.51	-57.94	5.51	-3.08	-13.00	-42.51

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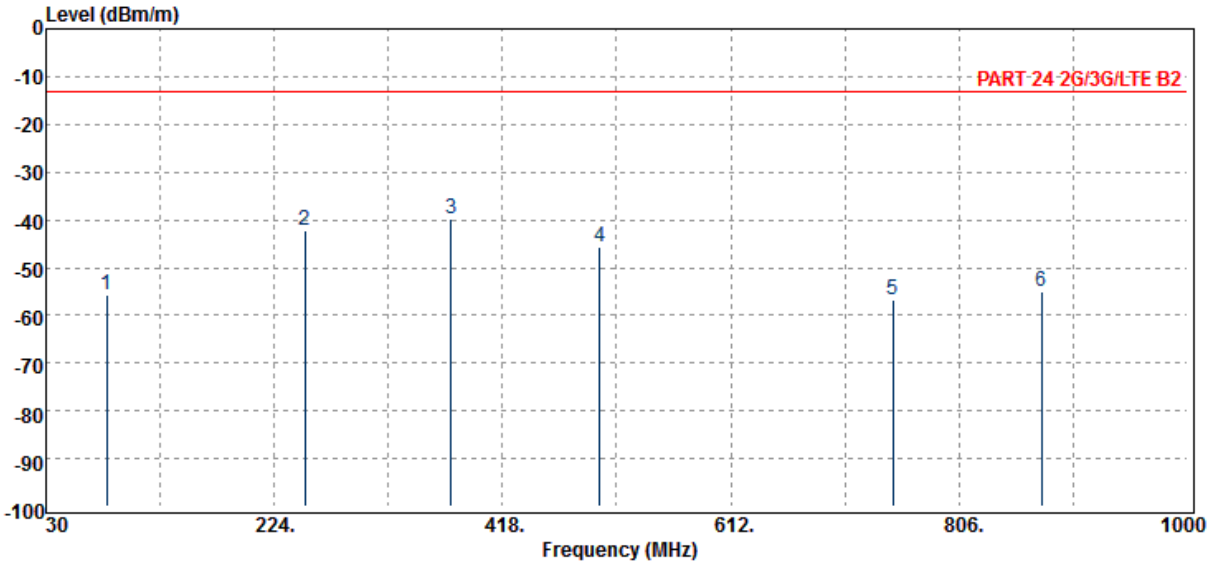
ARFCN	:CH 661	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-45.34	-44.02	-0.26	-1.06	-13.00	-32.34
250.19	S	-39.56	-43.52	5.59	-1.64	-13.00	-26.56
374.35	S	-42.13	-46.02	5.84	-1.96	-13.00	-29.13
500.45	S	-41.53	-45.13	5.91	-2.30	-13.00	-28.53
749.74	S	-53.44	-56.18	5.43	-2.70	-13.00	-40.44
875.84	S	-58.41	-60.84	5.51	-3.08	-13.00	-45.41

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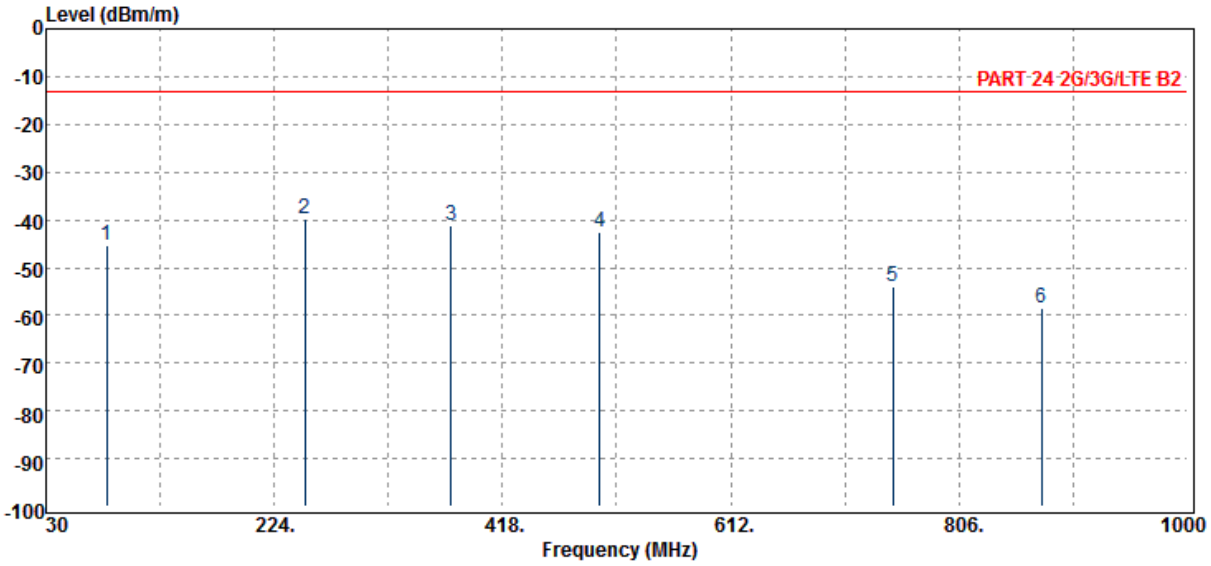
ARFCN	:CH 661	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-55.84	-54.52	-0.26	-1.06	-13.00	-42.84
250.19	S	-42.37	-46.32	5.59	-1.64	-13.00	-29.37
374.35	S	-39.95	-43.84	5.84	-1.96	-13.00	-26.95
500.45	S	-45.63	-49.23	5.91	-2.30	-13.00	-32.63
749.74	S	-56.65	-59.39	5.43	-2.70	-13.00	-43.65
875.84	S	-55.12	-57.56	5.51	-3.08	-13.00	-42.12

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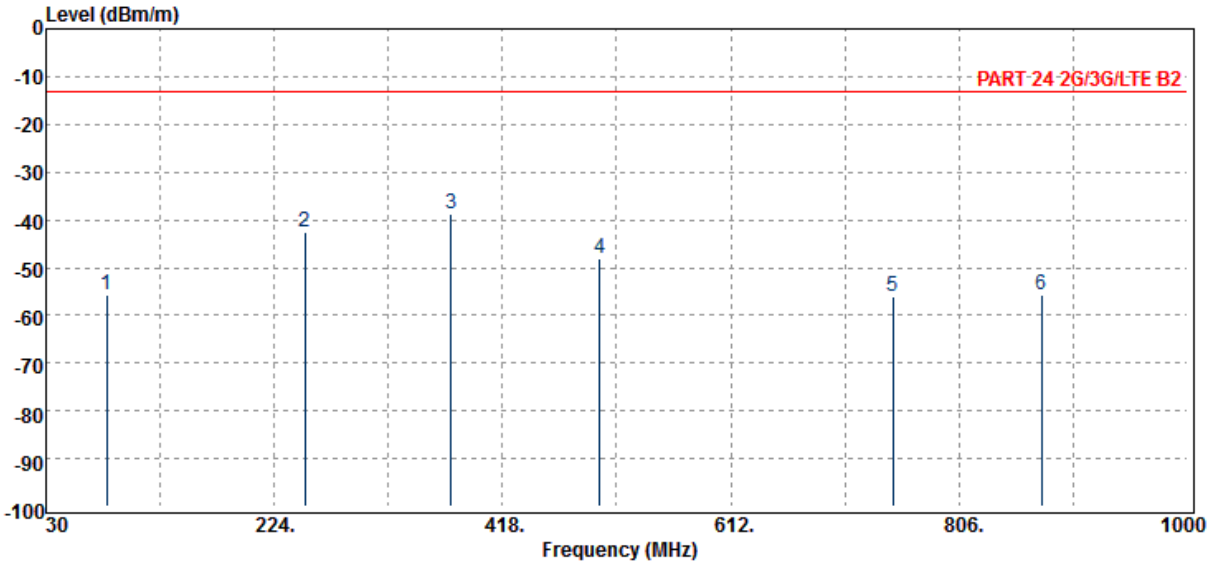
ARFCN	:CH 810	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-45.46	-44.14	-0.26	-1.06	-13.00	-32.46
250.19	S	-39.69	-43.64	5.59	-1.64	-13.00	-26.69
374.35	S	-41.13	-45.01	5.84	-1.96	-13.00	-28.13
500.45	S	-42.54	-46.15	5.91	-2.30	-13.00	-29.54
749.74	S	-53.85	-56.58	5.43	-2.70	-13.00	-40.85
875.84	S	-58.34	-60.77	5.51	-3.08	-13.00	-45.34

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ARFCN	:CH 810	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

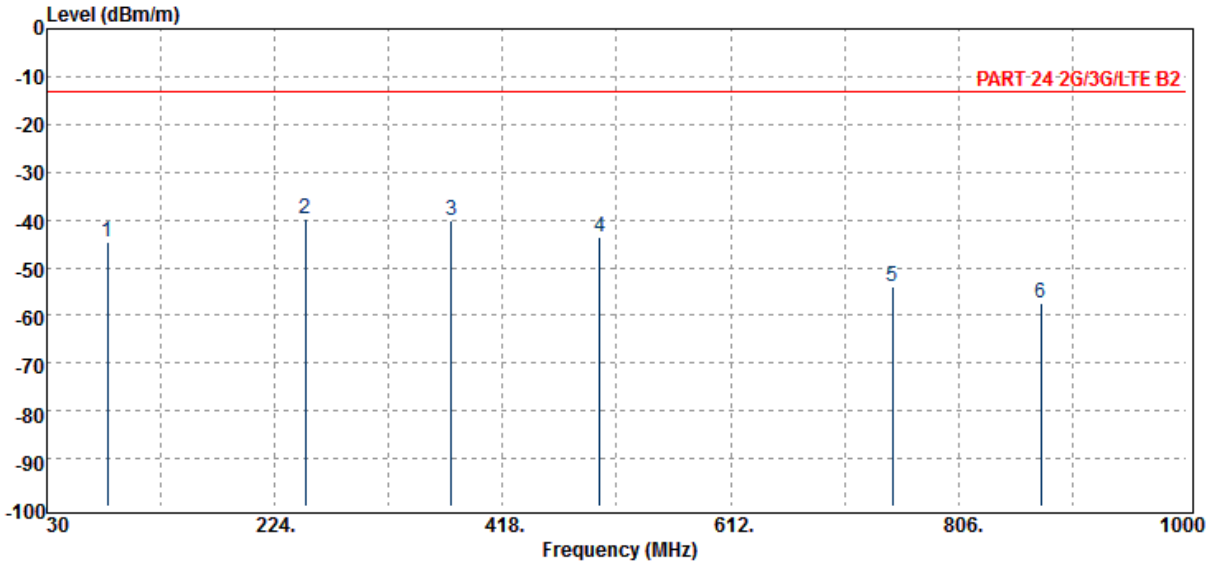


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-55.69	-54.37	-0.26	-1.06	-13.00	-42.69
250.19	S	-42.63	-46.59	5.59	-1.64	-13.00	-29.63
374.35	S	-38.61	-42.50	5.84	-1.96	-13.00	-25.61
500.45	S	-47.94	-51.54	5.91	-2.30	-13.00	-34.94
749.74	S	-56.11	-58.85	5.43	-2.70	-13.00	-43.11
875.84	S	-55.70	-58.13	5.51	-3.08	-13.00	-42.70

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Radiated Spurious Emission Measurement Result: HSDPA II Mode

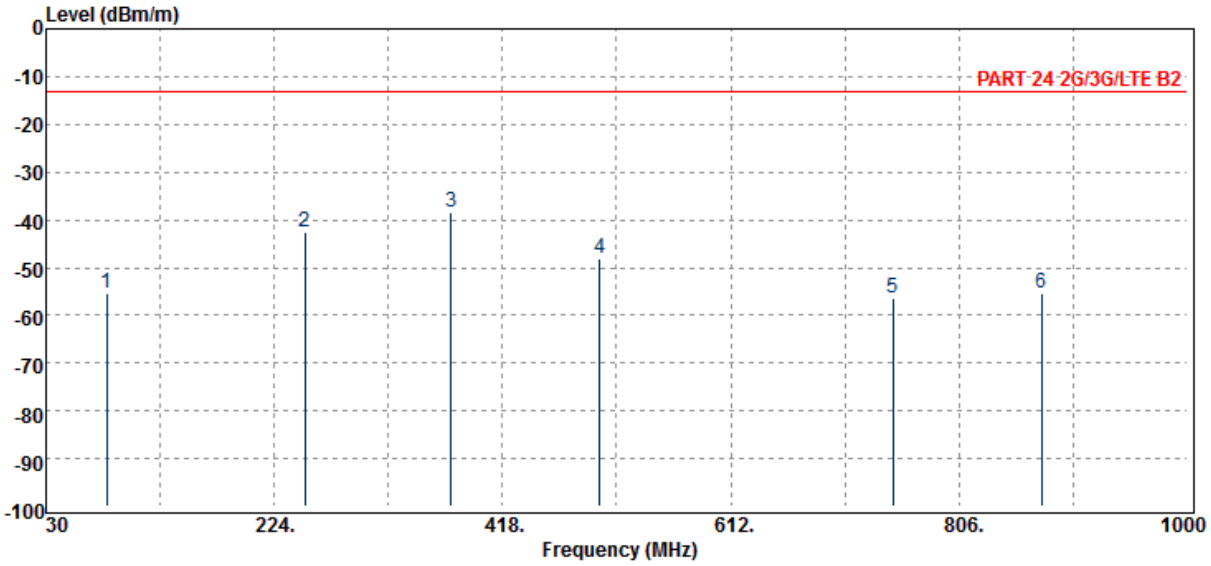
ARFCN	:CH 9262	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-44.50	-43.18	-0.26	-1.06	-13.00	-31.50
250.19	S	-39.73	-43.69	5.59	-1.64	-13.00	-26.73
374.35	S	-40.13	-44.02	5.84	-1.96	-13.00	-27.13
500.45	S	-43.46	-47.07	5.91	-2.30	-13.00	-30.46
749.74	S	-54.11	-56.85	5.43	-2.70	-13.00	-41.11
875.84	S	-57.57	-60.01	5.51	-3.08	-13.00	-44.57

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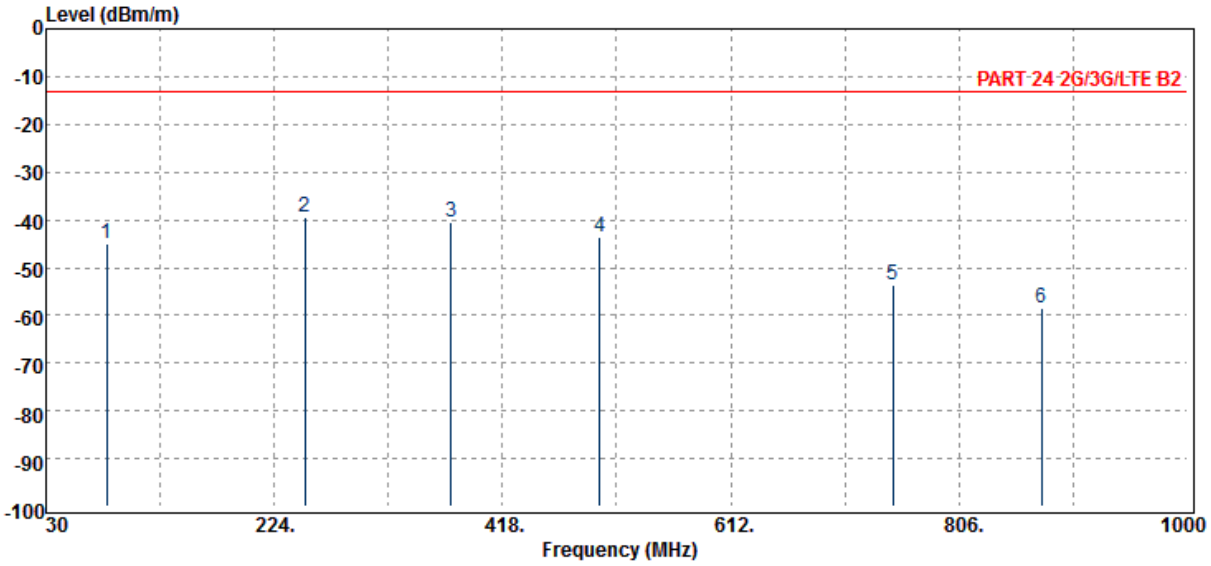
ARFCN	:CH 9262	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-55.23	-53.91	-0.26	-1.06	-13.00	-42.23
250.19	S	-42.62	-46.57	5.59	-1.64	-13.00	-29.62
374.35	S	-38.46	-42.35	5.84	-1.96	-13.00	-25.46
500.45	S	-48.09	-51.69	5.91	-2.30	-13.00	-35.09
749.74	S	-56.52	-59.26	5.43	-2.70	-13.00	-43.52
875.84	S	-55.48	-57.91	5.51	-3.08	-13.00	-42.48

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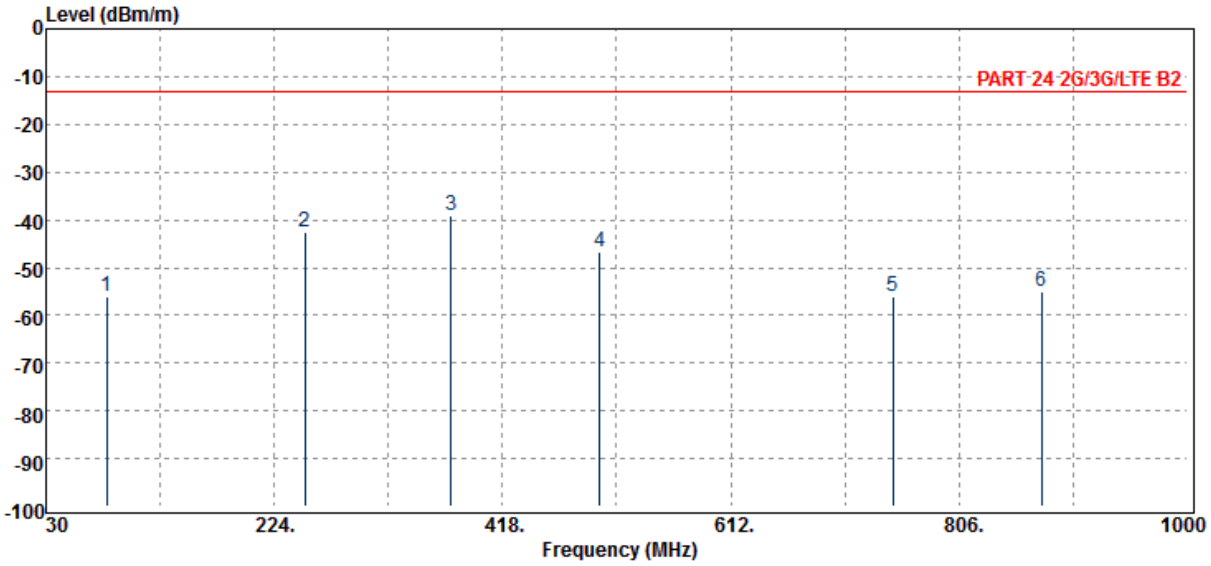
ARFCN	:CH 9400	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-44.91	-43.59	-0.26	-1.06	-13.00	-31.91
250.19	S	-39.57	-43.52	5.59	-1.64	-13.00	-26.57
374.35	S	-40.34	-44.23	5.84	-1.96	-13.00	-27.34
500.45	S	-43.51	-47.11	5.91	-2.30	-13.00	-30.51
749.74	S	-53.75	-56.48	5.43	-2.70	-13.00	-40.75
875.84	S	-58.49	-60.92	5.51	-3.08	-13.00	-45.49

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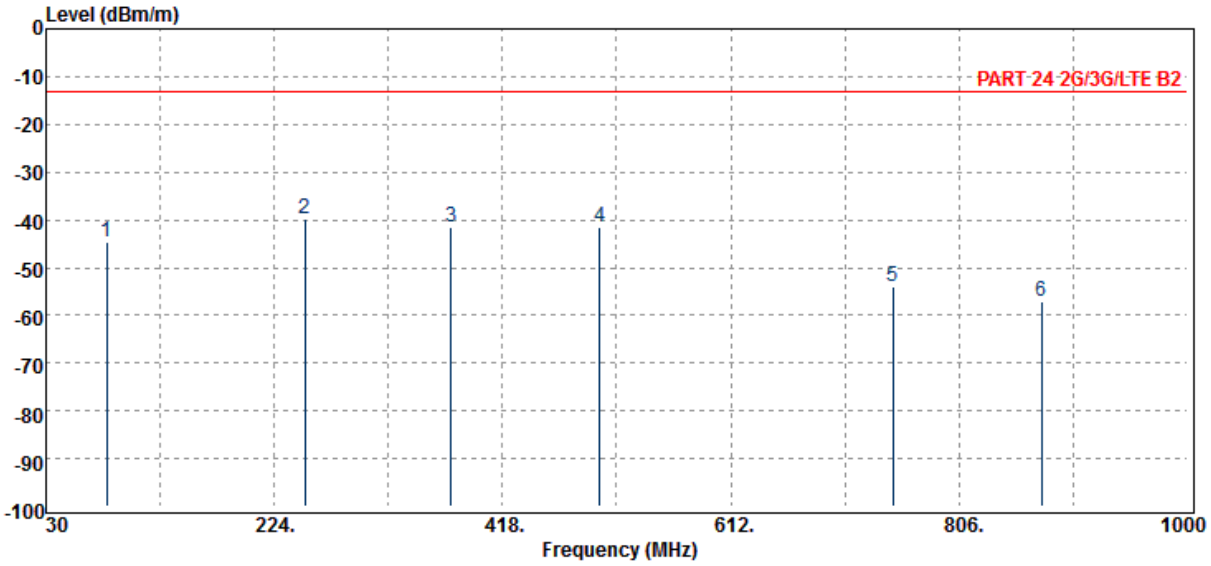
ARFCN	:CH 9400	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-55.96	-54.64	-0.26	-1.06	-13.00	-42.96
250.19	S	-42.62	-46.57	5.59	-1.64	-13.00	-29.62
374.35	S	-39.21	-43.10	5.84	-1.96	-13.00	-26.21
500.45	S	-46.61	-50.22	5.91	-2.30	-13.00	-33.61
749.74	S	-56.03	-58.77	5.43	-2.70	-13.00	-43.03
875.84	S	-55.11	-57.54	5.51	-3.08	-13.00	-42.11

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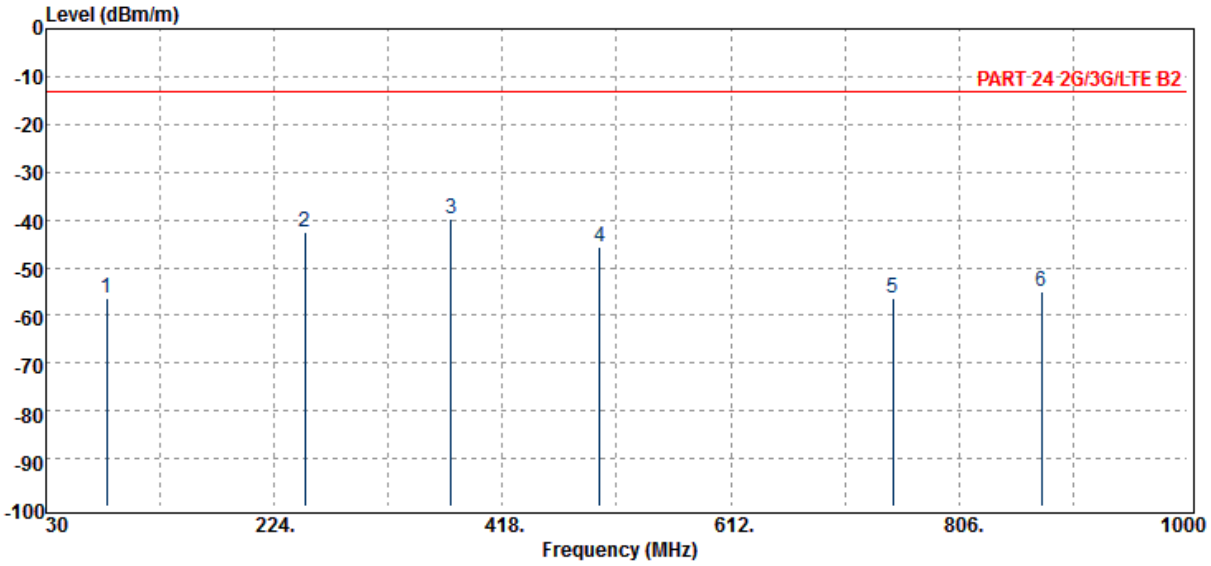
ARFCN	:CH 9538	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-44.73	-43.41	-0.26	-1.06	-13.00	-31.73
250.19	S	-39.63	-43.59	5.59	-1.64	-13.00	-26.63
374.35	S	-41.61	-45.49	5.84	-1.96	-13.00	-28.61
500.45	S	-41.69	-45.30	5.91	-2.30	-13.00	-28.69
749.74	S	-53.90	-56.64	5.43	-2.70	-13.00	-40.90
875.84	S	-57.23	-59.67	5.51	-3.08	-13.00	-44.23

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ARFCN	:CH 9538	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

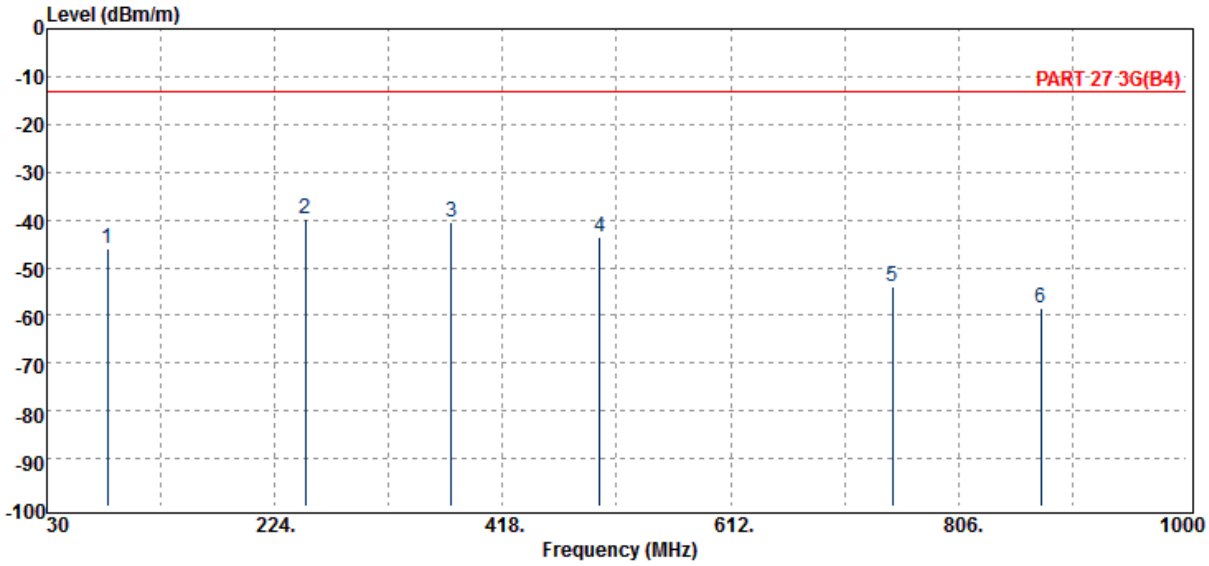


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-56.42	-55.10	-0.26	-1.06	-13.00	-43.42
250.19	S	-42.43	-46.38	5.59	-1.64	-13.00	-29.43
374.35	S	-39.92	-43.81	5.84	-1.96	-13.00	-26.92
500.45	S	-45.71	-49.32	5.91	-2.30	-13.00	-32.71
749.74	S	-56.26	-59.00	5.43	-2.70	-13.00	-43.26
875.84	S	-55.02	-57.45	5.51	-3.08	-13.00	-42.02

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

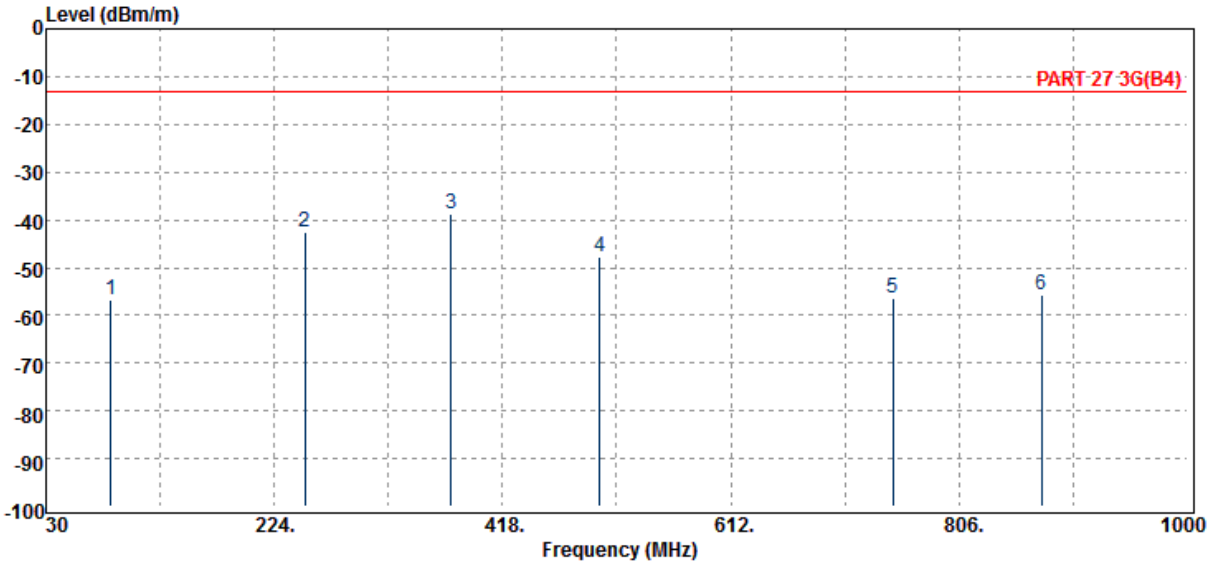
ARFCN	:CH 1312	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-45.90	-44.58	-0.26	-1.06	-13.00	-32.90
250.19	S	-39.72	-43.68	5.59	-1.64	-13.00	-26.72
374.35	S	-40.49	-44.37	5.84	-1.96	-13.00	-27.49
500.45	S	-43.55	-47.16	5.91	-2.30	-13.00	-30.55
749.74	S	-53.98	-56.72	5.43	-2.70	-13.00	-40.98
875.84	S	-58.45	-60.88	5.51	-3.08	-13.00	-45.45

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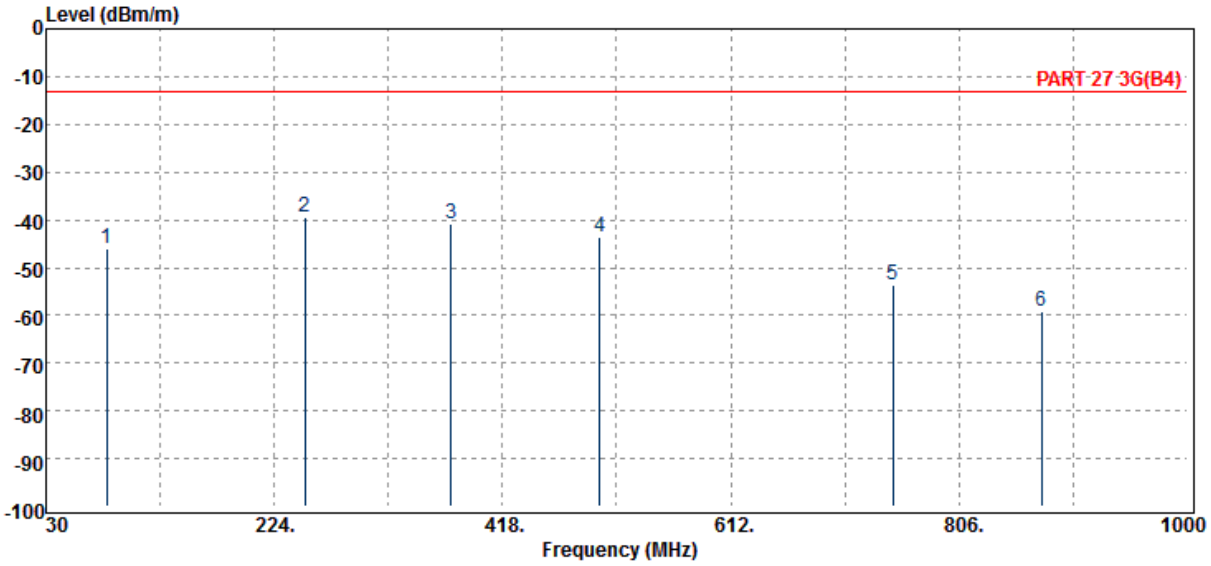
ARFCN	:CH 1312	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
85.29	S	-56.70	-56.28	0.65	-1.07	-13.00	-43.70
250.19	S	-42.69	-46.65	5.59	-1.64	-13.00	-29.69
374.35	S	-38.68	-42.56	5.84	-1.96	-13.00	-25.68
500.45	S	-47.85	-51.45	5.91	-2.30	-13.00	-34.85
749.74	S	-56.25	-58.99	5.43	-2.70	-13.00	-43.25
875.84	S	-55.65	-58.08	5.51	-3.08	-13.00	-42.65

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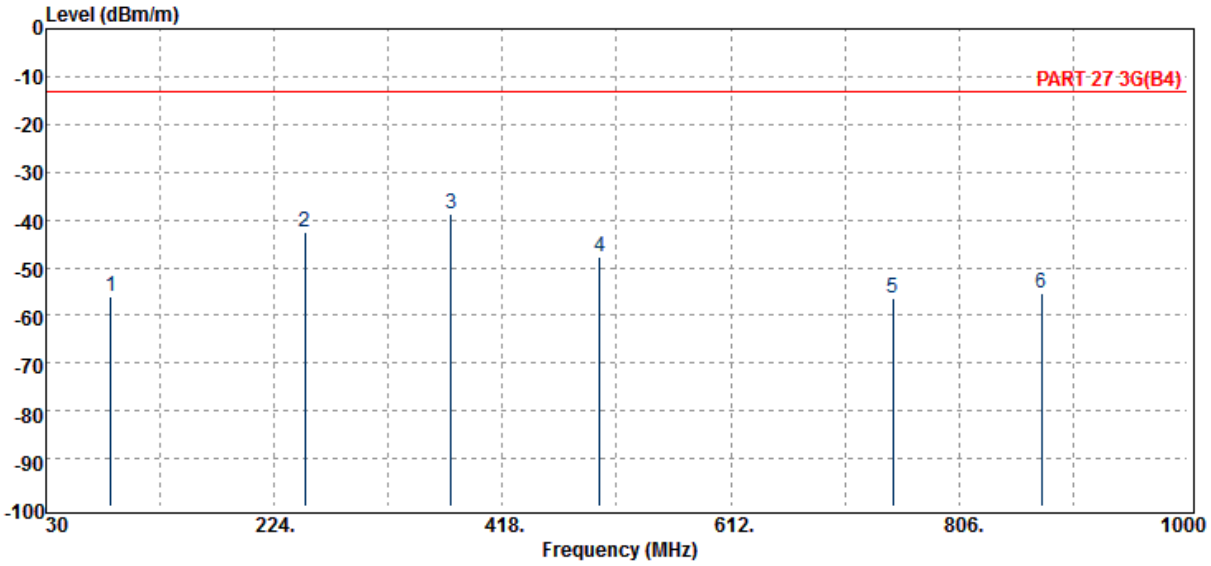
ARFCN	:CH 1413	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-45.88	-44.56	-0.26	-1.06	-13.00	-32.88
250.19	S	-39.59	-43.54	5.59	-1.64	-13.00	-26.59
374.35	S	-40.70	-44.58	5.84	-1.96	-13.00	-27.70
500.45	S	-43.62	-47.23	5.91	-2.30	-13.00	-30.62
749.74	S	-53.66	-56.40	5.43	-2.70	-13.00	-40.66
875.84	S	-59.02	-61.46	5.51	-3.08	-13.00	-46.02

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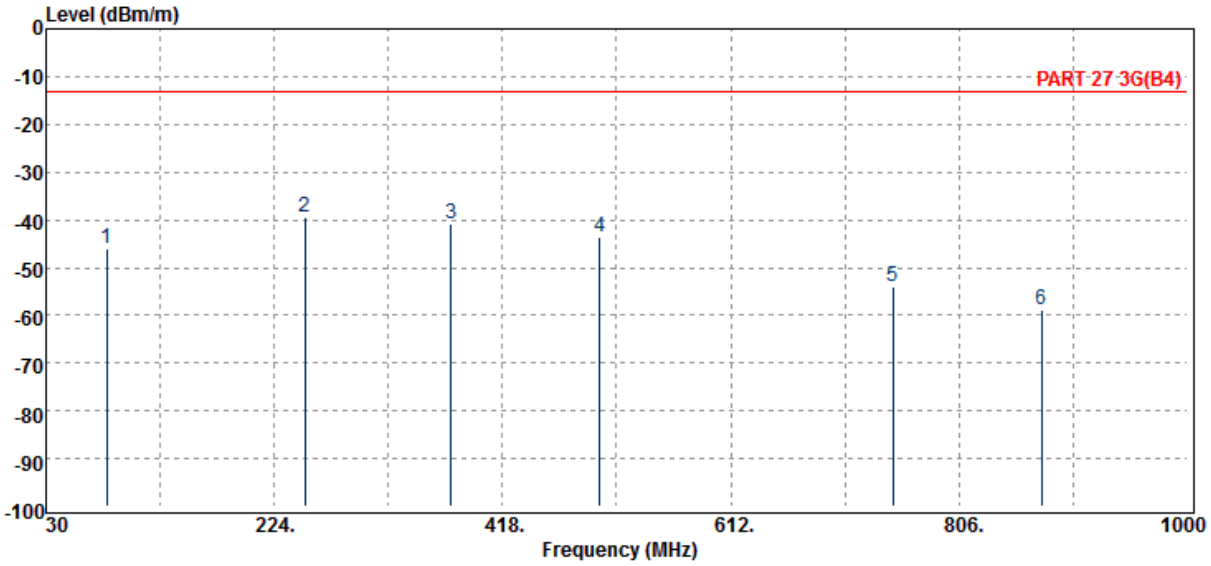
ARFCN	:CH 1413	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
85.29	S	-55.92	-55.50	0.65	-1.07	-13.00	-42.92
250.19	S	-42.45	-46.40	5.59	-1.64	-13.00	-29.45
374.35	S	-38.69	-42.58	5.84	-1.96	-13.00	-25.69
500.45	S	-47.88	-51.49	5.91	-2.30	-13.00	-34.88
749.74	S	-56.33	-59.07	5.43	-2.70	-13.00	-43.33
875.84	S	-55.48	-57.92	5.51	-3.08	-13.00	-42.48

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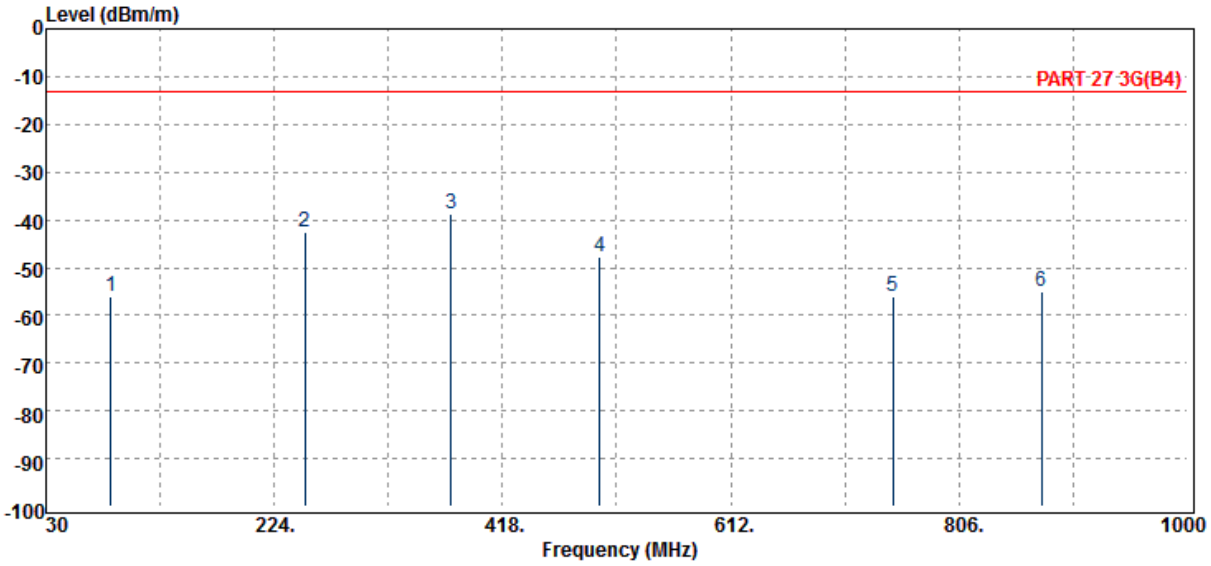
ARFCN	:CH 1513	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-45.88	-44.56	-0.26	-1.06	-13.00	-32.88
250.19	S	-39.47	-43.43	5.59	-1.64	-13.00	-26.47
374.35	S	-40.66	-44.54	5.84	-1.96	-13.00	-27.66
500.45	S	-43.46	-47.07	5.91	-2.30	-13.00	-30.46
749.74	S	-53.98	-56.71	5.43	-2.70	-13.00	-40.98
875.84	S	-58.82	-61.25	5.51	-3.08	-13.00	-45.82

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ARFCN	:CH 1513	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

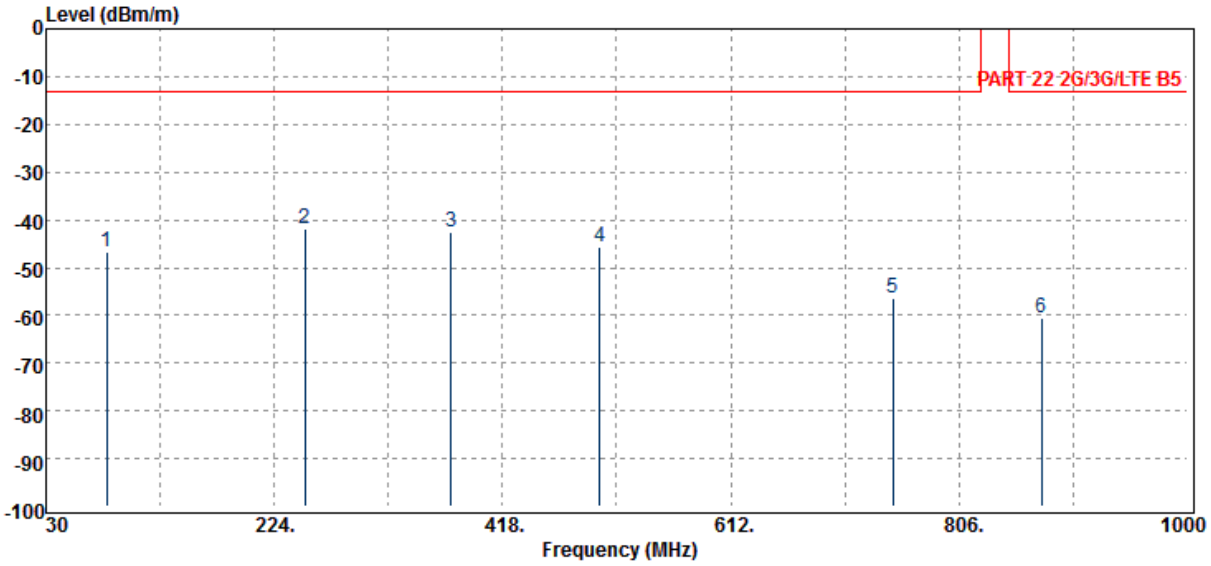


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
85.29	S	-56.12	-55.70	0.65	-1.07	-13.00	-43.12
250.19	S	-42.51	-46.47	5.59	-1.64	-13.00	-29.51
374.35	S	-38.68	-42.56	5.84	-1.96	-13.00	-25.68
500.45	S	-47.83	-51.44	5.91	-2.30	-13.00	-34.83
749.74	S	-56.11	-58.84	5.43	-2.70	-13.00	-43.11
875.84	S	-55.11	-57.55	5.51	-3.08	-13.00	-42.11

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Radiated Spurious Emission Measurement Result: HSDPA V Mode

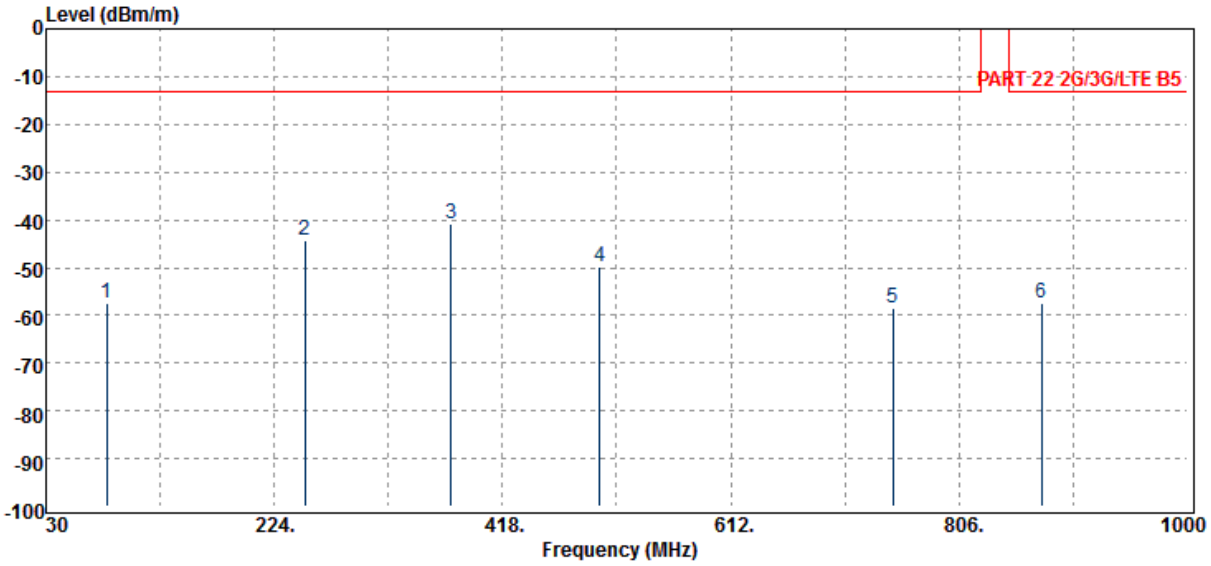
ARFCN	:CH 4132	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-46.67	-43.20	-2.41	-1.06	-13.00	-33.67
250.19	S	-41.80	-43.60	3.44	-1.64	-13.00	-28.80
374.35	S	-42.46	-44.19	3.69	-1.96	-13.00	-29.46
500.45	S	-45.51	-46.97	3.76	-2.30	-13.00	-32.51
749.74	S	-56.35	-56.93	3.28	-2.70	-13.00	-43.35
875.84	S	-60.53	-60.82	3.36	-3.08	-13.00	-47.53

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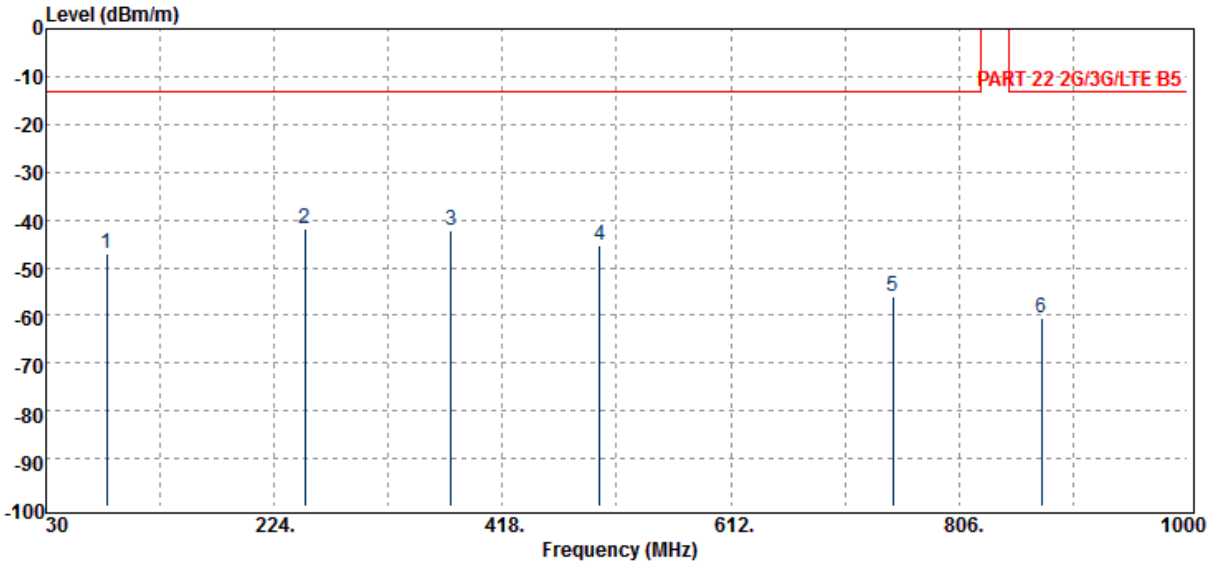
ARFCN	:CH 4132	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-57.57	-54.10	-2.41	-1.06	-13.00	-44.57
250.19	S	-44.39	-46.19	3.44	-1.64	-13.00	-31.39
374.35	S	-40.68	-42.42	3.69	-1.96	-13.00	-27.68
500.45	S	-49.94	-51.40	3.76	-2.30	-13.00	-36.94
749.74	S	-58.38	-58.97	3.28	-2.70	-13.00	-45.38
875.84	S	-57.58	-57.87	3.36	-3.08	-13.00	-44.58

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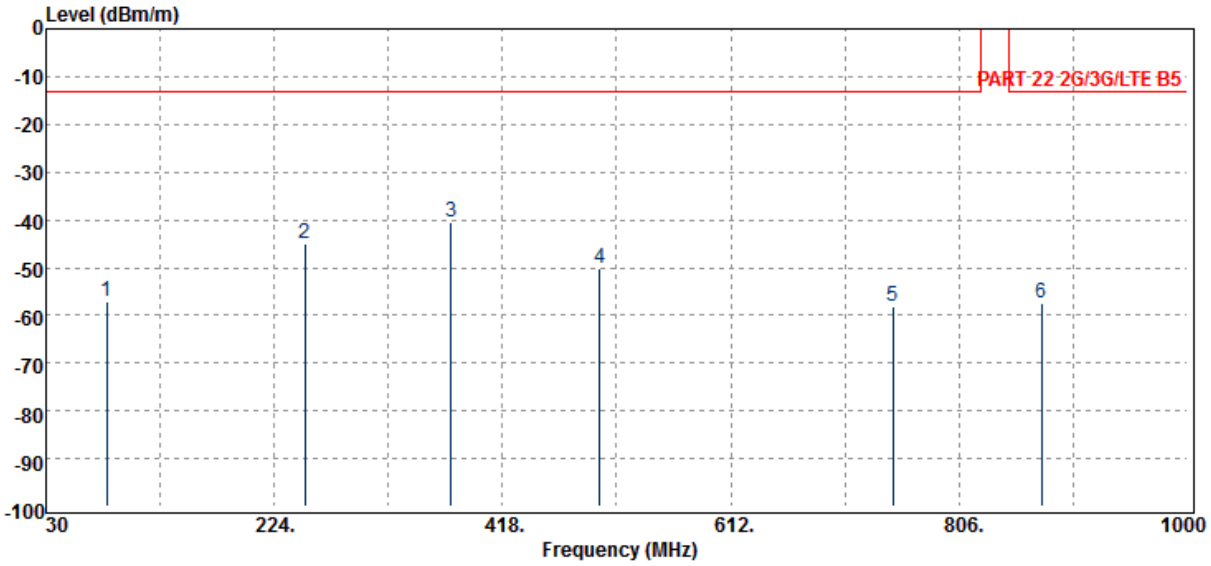
ARFCN	:CH 4183	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-46.94	-43.47	-2.41	-1.06	-13.00	-33.94
250.19	S	-41.90	-43.70	3.44	-1.64	-13.00	-28.90
374.35	S	-42.16	-43.89	3.69	-1.96	-13.00	-29.16
500.45	S	-45.35	-46.81	3.76	-2.30	-13.00	-32.35
749.74	S	-56.00	-56.59	3.28	-2.70	-13.00	-43.00
875.84	S	-60.65	-60.93	3.36	-3.08	-13.00	-47.65

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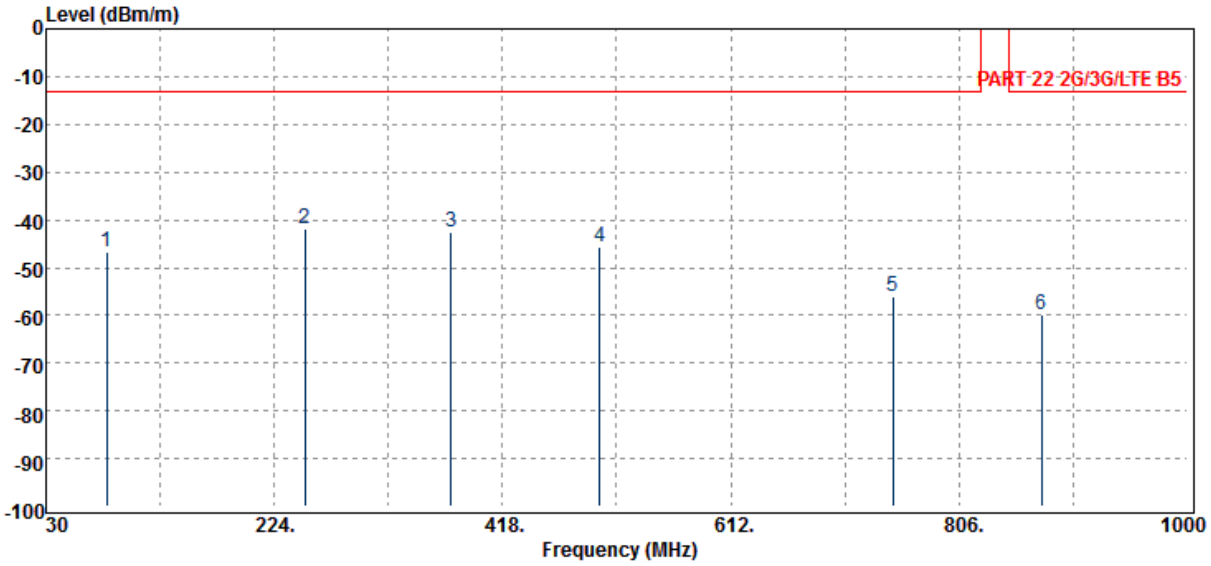
ARFCN	:CH 4183	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-57.20	-53.73	-2.41	-1.06	-13.00	-44.20
250.19	S	-45.02	-46.83	3.44	-1.64	-13.00	-32.02
374.35	S	-40.53	-42.26	3.69	-1.96	-13.00	-27.53
500.45	S	-50.06	-51.51	3.76	-2.30	-13.00	-37.06
749.74	S	-58.01	-58.60	3.28	-2.70	-13.00	-45.01
875.84	S	-57.48	-57.76	3.36	-3.08	-13.00	-44.48

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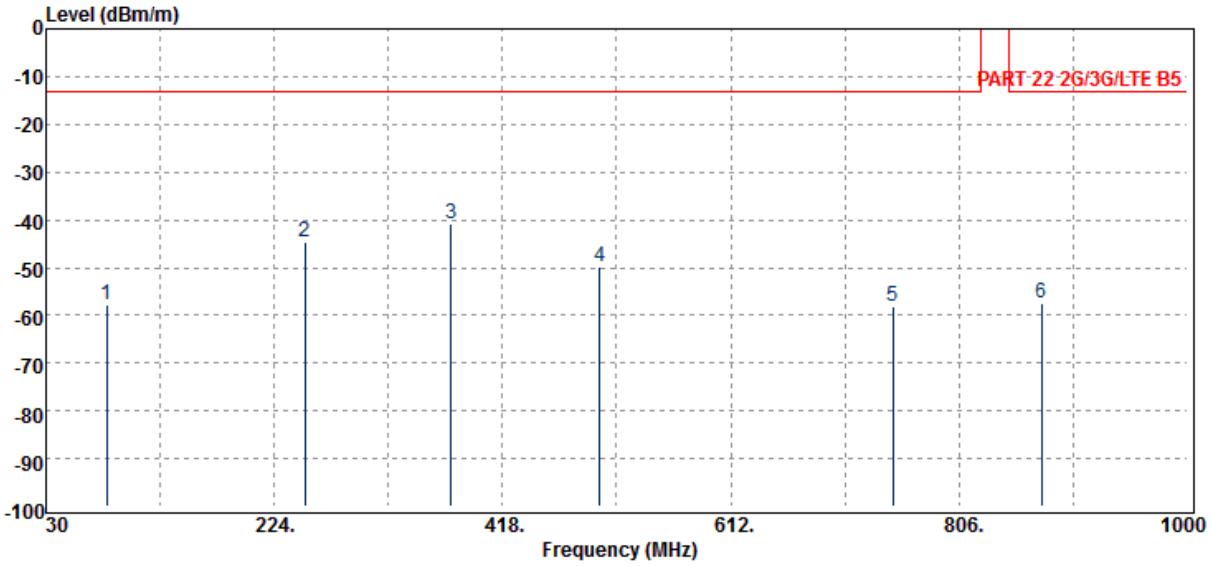
ARFCN	:CH 4233	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-46.74	-43.27	-2.41	-1.06	-13.00	-33.74
250.19	S	-41.71	-43.52	3.44	-1.64	-13.00	-28.71
374.35	S	-42.41	-44.14	3.69	-1.96	-13.00	-29.41
500.45	S	-45.78	-47.23	3.76	-2.30	-13.00	-32.78
749.74	S	-55.97	-56.56	3.28	-2.70	-13.00	-42.97
875.84	S	-60.00	-60.28	3.36	-3.08	-13.00	-47.00

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ARFCN	:CH 4233	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

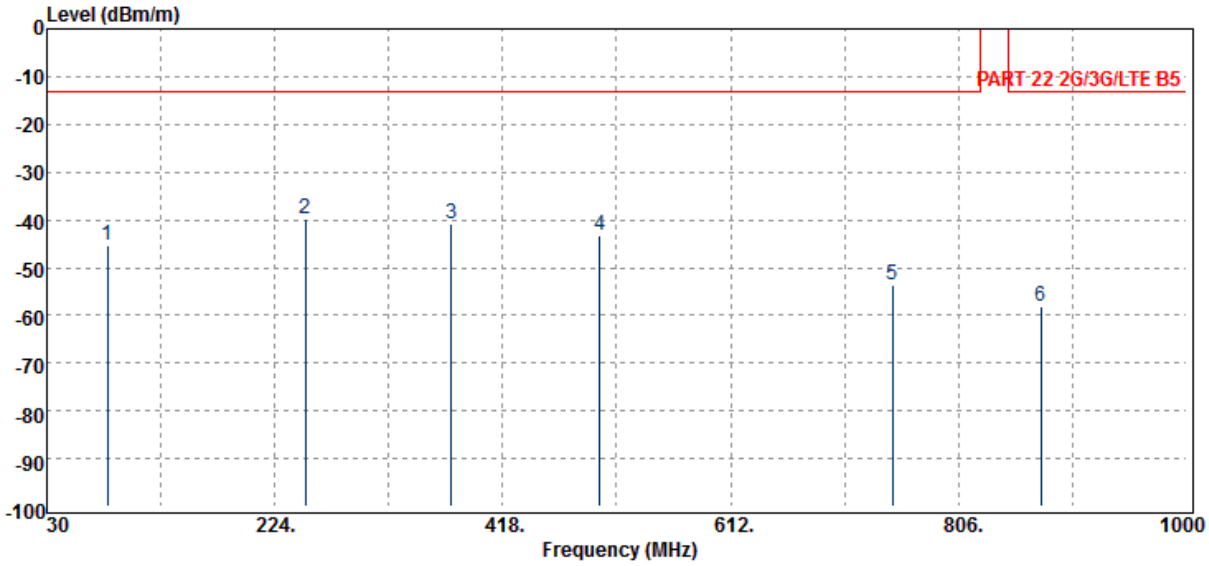


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-57.86	-54.39	-2.41	-1.06	-13.00	-44.86
250.19	S	-44.50	-46.30	3.44	-1.64	-13.00	-31.50
374.35	S	-40.67	-42.41	3.69	-1.96	-13.00	-27.67
500.45	S	-49.67	-51.12	3.76	-2.30	-13.00	-36.67
749.74	S	-58.09	-58.68	3.28	-2.70	-13.00	-45.09
875.84	S	-57.43	-57.72	3.36	-3.08	-13.00	-44.43

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Radiated Spurious Emission Measurement Result: CDMA BC0 Mode

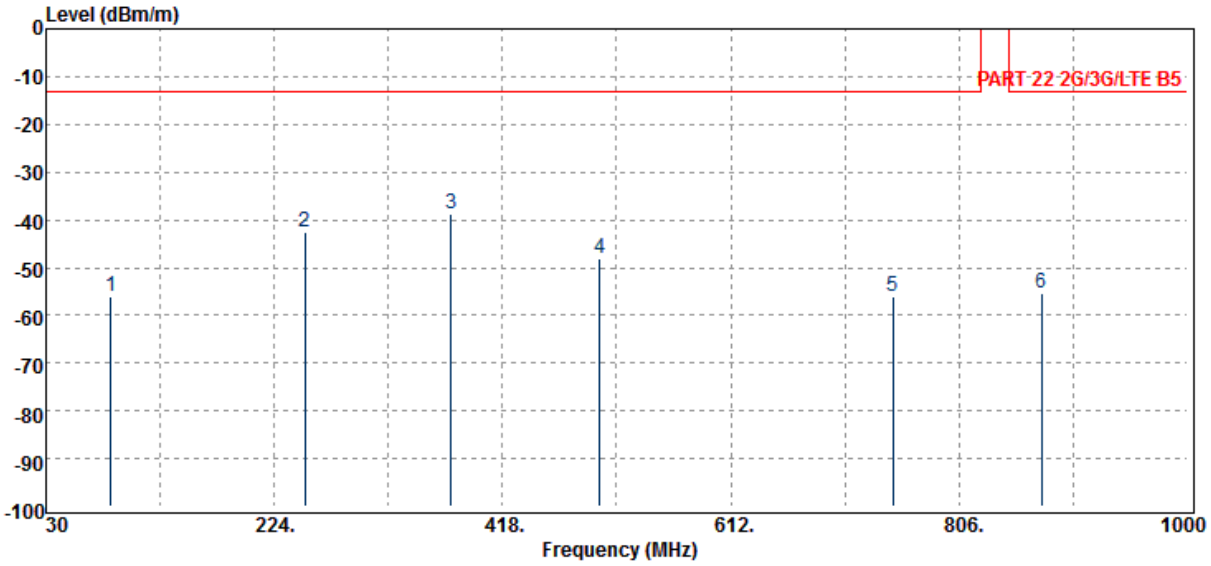
ARFCN	:CH 1013	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-45.32	-43.99	-0.26	-1.06	-13.00	-32.32
250.19	S	-39.67	-43.62	5.59	-1.64	-13.00	-26.67
374.35	S	-40.74	-44.63	5.84	-1.96	-13.00	-27.74
500.45	S	-43.42	-47.02	5.91	-2.30	-13.00	-30.42
749.74	S	-53.53	-56.27	5.43	-2.70	-13.00	-40.53
875.84	S	-58.05	-60.48	5.51	-3.08	-13.00	-45.05

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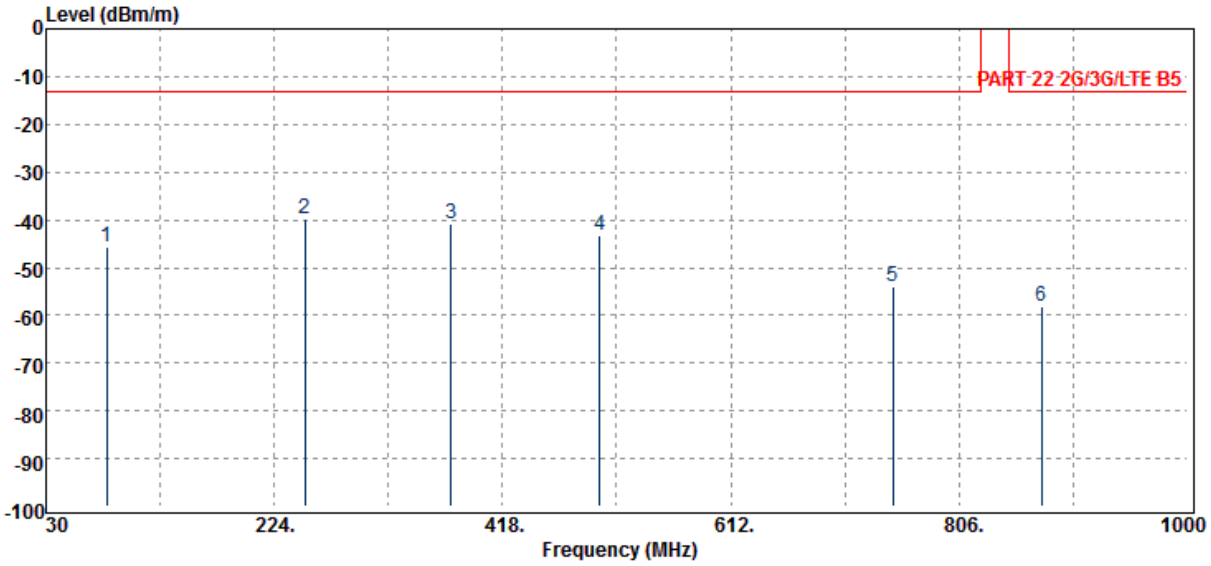
ARFCN	:CH 1013	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
85.29	S	-56.10	-55.68	0.65	-1.07	-13.00	-43.10
250.19	S	-42.61	-46.56	5.59	-1.64	-13.00	-29.61
374.35	S	-38.70	-42.59	5.84	-1.96	-13.00	-25.70
500.45	S	-48.08	-51.68	5.91	-2.30	-13.00	-35.08
749.74	S	-56.19	-58.92	5.43	-2.70	-13.00	-43.19
875.84	S	-55.37	-57.80	5.51	-3.08	-13.00	-42.37

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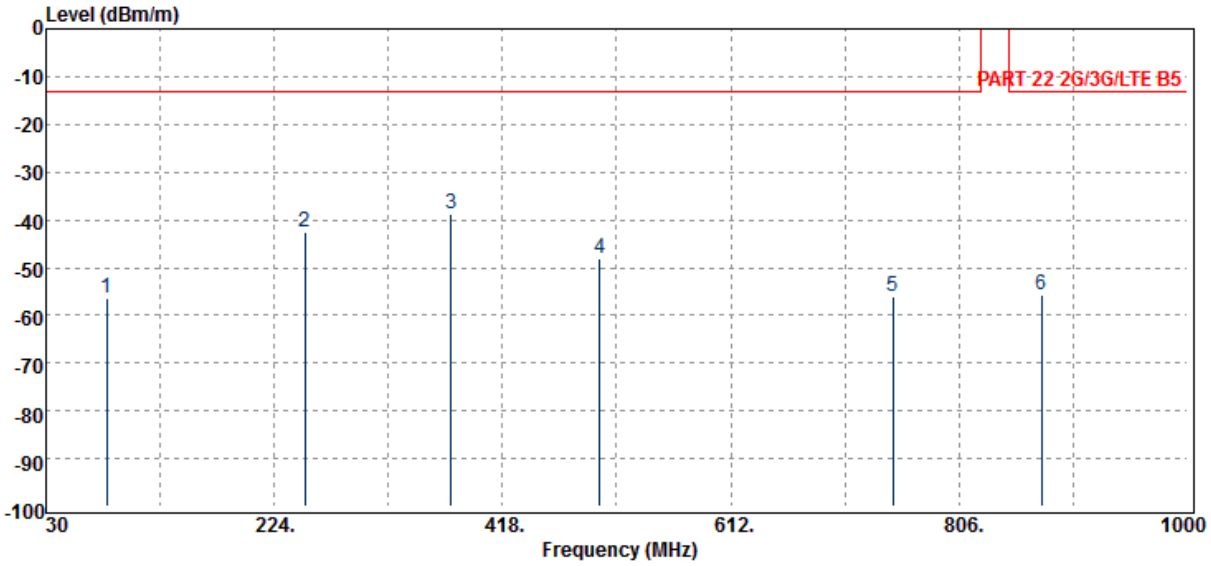
ARFCN	:CH 384	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-45.68	-44.36	-0.26	-1.06	-13.00	-32.68
250.19	S	-39.71	-43.67	5.59	-1.64	-13.00	-26.71
374.35	S	-40.77	-44.65	5.84	-1.96	-13.00	-27.77
500.45	S	-43.41	-47.01	5.91	-2.30	-13.00	-30.41
749.74	S	-53.89	-56.63	5.43	-2.70	-13.00	-40.89
875.84	S	-58.19	-60.62	5.51	-3.08	-13.00	-45.19

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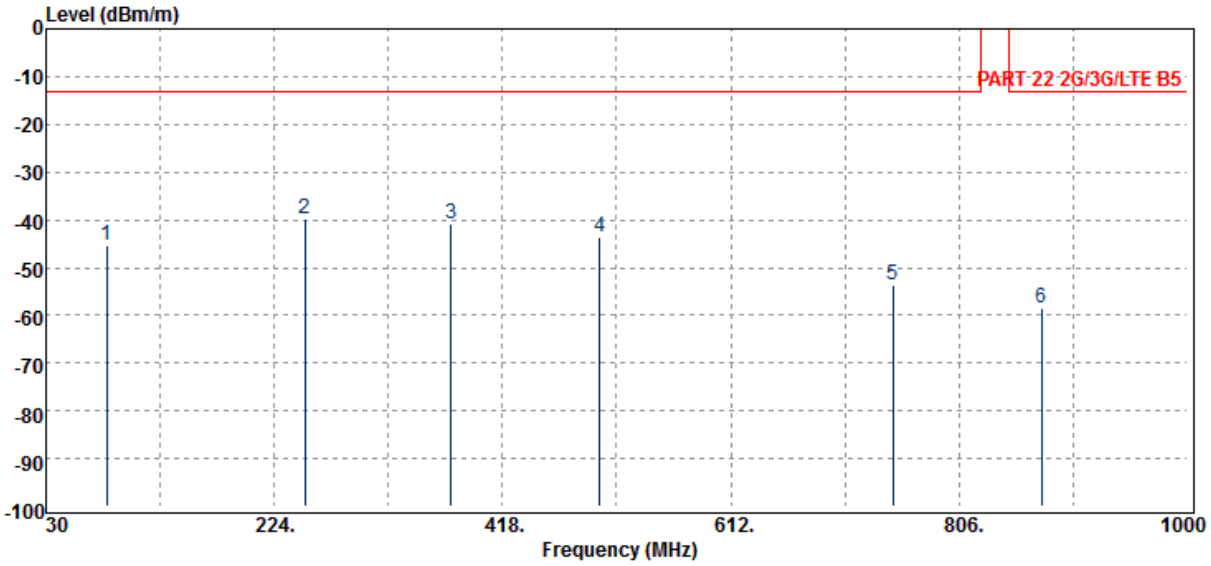
ARFCN	:CH 384	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-56.41	-55.09	-0.26	-1.06	-13.00	-43.41
250.19	S	-42.46	-46.42	5.59	-1.64	-13.00	-29.46
374.35	S	-38.67	-42.55	5.84	-1.96	-13.00	-25.67
500.45	S	-47.98	-51.58	5.91	-2.30	-13.00	-34.98
749.74	S	-56.12	-58.86	5.43	-2.70	-13.00	-43.12
875.84	S	-55.78	-58.21	5.51	-3.08	-13.00	-42.78

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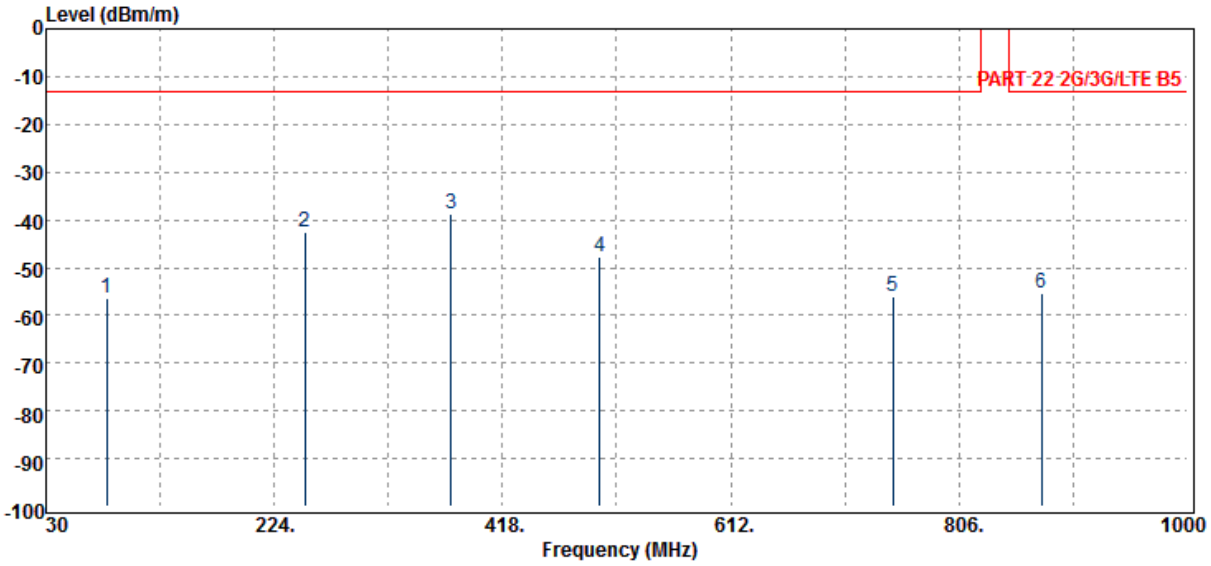
ARFCN	:CH 777	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-45.37	-44.05	-0.26	-1.06	-13.00	-32.37
250.19	S	-39.71	-43.67	5.59	-1.64	-13.00	-26.71
374.35	S	-40.75	-44.63	5.84	-1.96	-13.00	-27.75
500.45	S	-43.58	-47.19	5.91	-2.30	-13.00	-30.58
749.74	S	-53.66	-56.40	5.43	-2.70	-13.00	-40.66
875.84	S	-58.54	-60.97	5.51	-3.08	-13.00	-45.54

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ARFCN	:CH 777	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

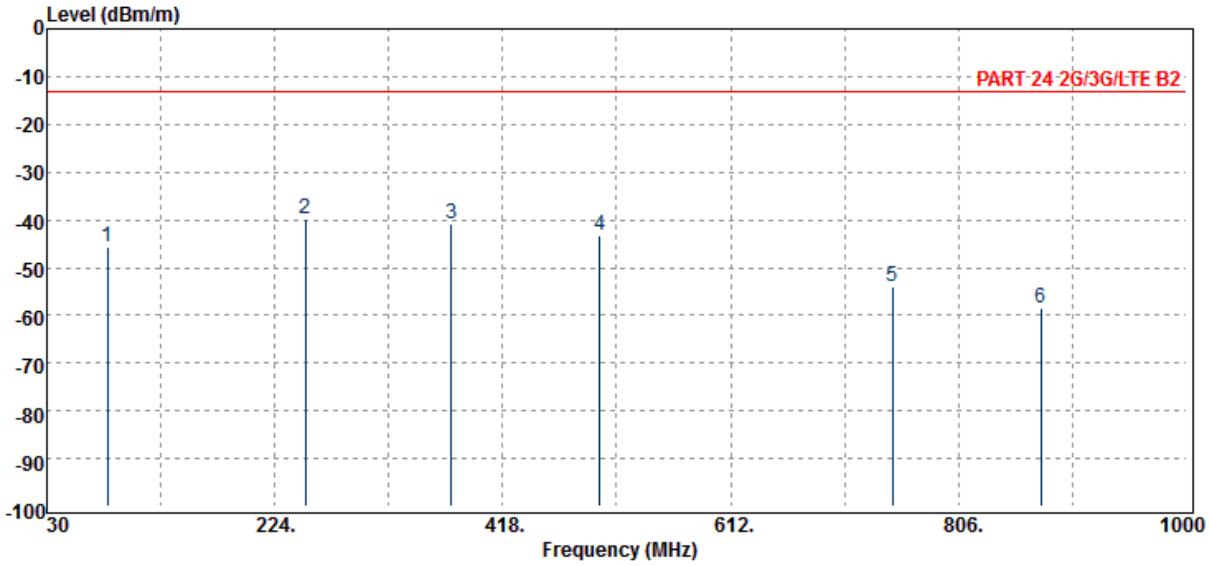


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-56.40	-55.08	-0.26	-1.06	-13.00	-43.40
250.19	S	-42.46	-46.41	5.59	-1.64	-13.00	-29.46
374.35	S	-38.70	-42.58	5.84	-1.96	-13.00	-25.70
500.45	S	-47.89	-51.50	5.91	-2.30	-13.00	-34.89
749.74	S	-55.95	-58.68	5.43	-2.70	-13.00	-42.95
875.84	S	-55.51	-57.94	5.51	-3.08	-13.00	-42.51

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Radiated Spurious Emission Measurement Result: CDMA BC1 Mode

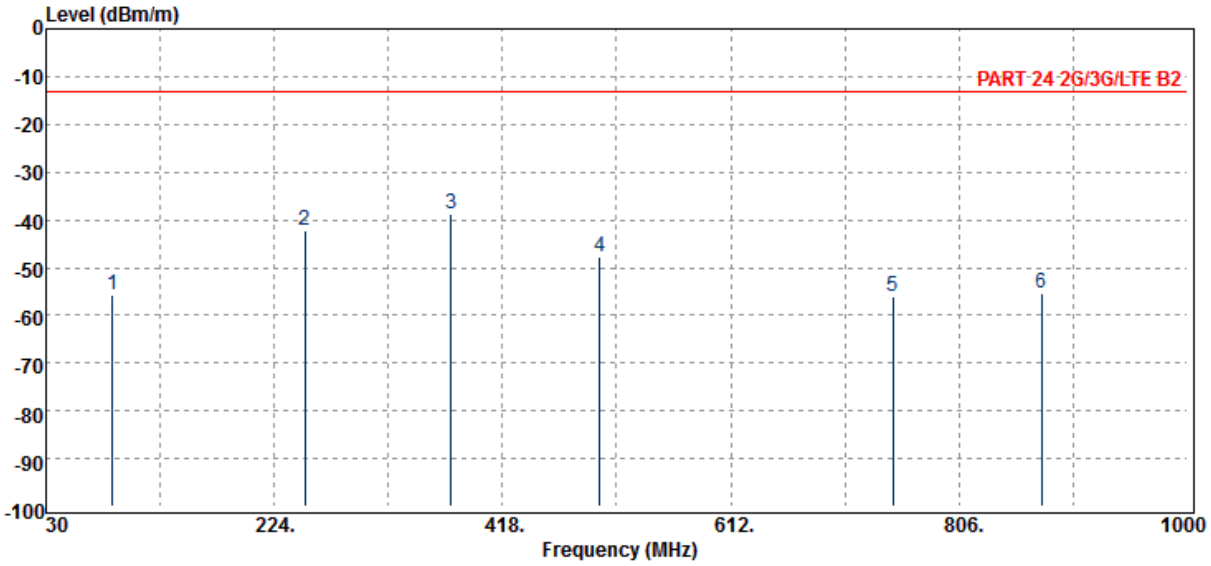
ARFCN	:CH 25	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-45.82	-44.50	-0.26	-1.06	-13.00	-32.82
250.19	S	-39.67	-43.63	5.59	-1.64	-13.00	-26.67
374.35	S	-40.76	-44.64	5.84	-1.96	-13.00	-27.76
500.45	S	-43.38	-46.99	5.91	-2.30	-13.00	-30.38
749.74	S	-53.84	-56.58	5.43	-2.70	-13.00	-40.84
875.84	S	-58.59	-61.02	5.51	-3.08	-13.00	-45.59

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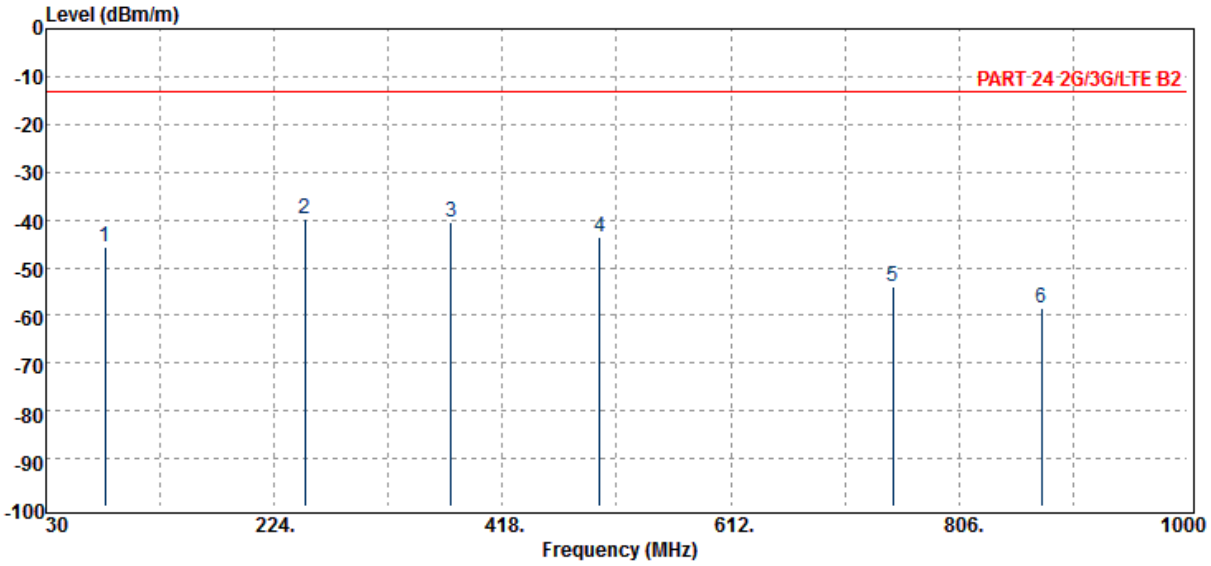
ARFCN	:CH 25	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
86.26	S	-55.65	-55.45	0.88	-1.08	-13.00	-42.65
250.19	S	-42.22	-46.17	5.59	-1.64	-13.00	-29.22
374.35	S	-38.60	-42.49	5.84	-1.96	-13.00	-25.60
500.45	S	-47.81	-51.42	5.91	-2.30	-13.00	-34.81
749.74	S	-55.99	-58.73	5.43	-2.70	-13.00	-42.99
875.84	S	-55.23	-57.66	5.51	-3.08	-13.00	-42.23

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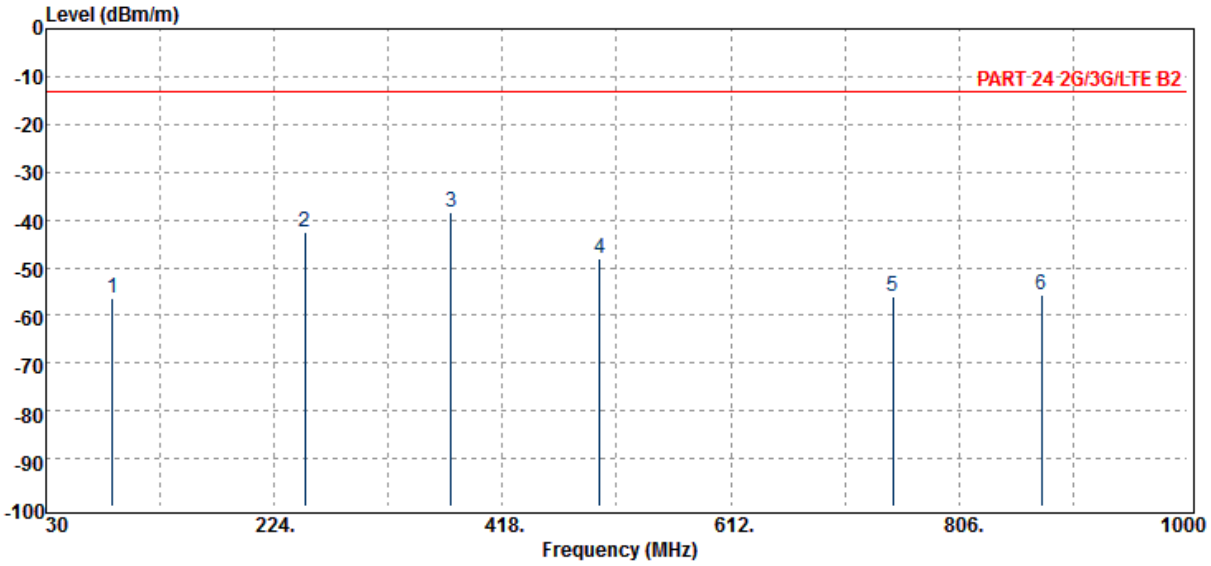
ARFCN	:CH 600	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
80.44	S	-45.71	-44.16	-0.50	-1.05	-13.00	-32.71
250.19	S	-39.67	-43.62	5.59	-1.64	-13.00	-26.67
374.35	S	-40.60	-44.48	5.84	-1.96	-13.00	-27.60
500.45	S	-43.67	-47.27	5.91	-2.30	-13.00	-30.67
749.74	S	-53.81	-56.54	5.43	-2.70	-13.00	-40.81
875.84	S	-58.39	-60.83	5.51	-3.08	-13.00	-45.39

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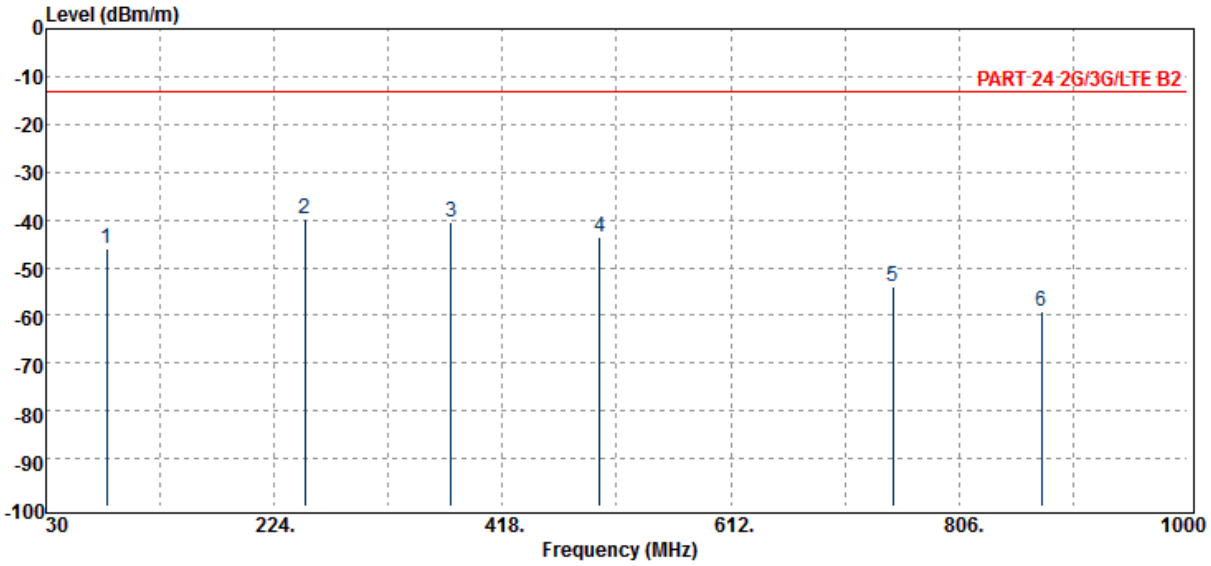
ARFCN	:CH 600	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
86.26	S	-56.30	-56.11	0.88	-1.08	-13.00	-43.30
250.19	S	-42.49	-46.44	5.59	-1.64	-13.00	-29.49
374.35	S	-38.45	-42.34	5.84	-1.96	-13.00	-25.45
500.45	S	-48.01	-51.61	5.91	-2.30	-13.00	-35.01
749.74	S	-56.09	-58.83	5.43	-2.70	-13.00	-43.09
875.84	S	-55.68	-58.11	5.51	-3.08	-13.00	-42.68

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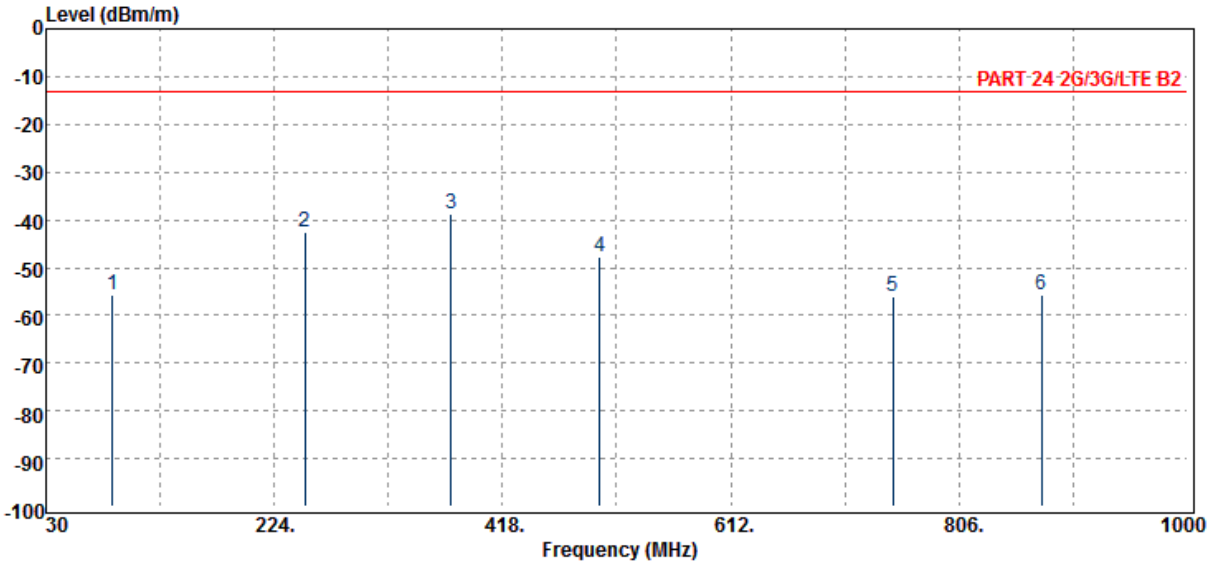
ARFCN	:CH 1175	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-46.01	-44.69	-0.26	-1.06	-13.00	-33.01
250.19	S	-39.68	-43.64	5.59	-1.64	-13.00	-26.68
374.35	S	-40.47	-44.35	5.84	-1.96	-13.00	-27.47
500.45	S	-43.55	-47.15	5.91	-2.30	-13.00	-30.55
749.74	S	-54.07	-56.81	5.43	-2.70	-13.00	-41.07
875.84	S	-59.24	-61.68	5.51	-3.08	-13.00	-46.24

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ARFCN	:CH 1175	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

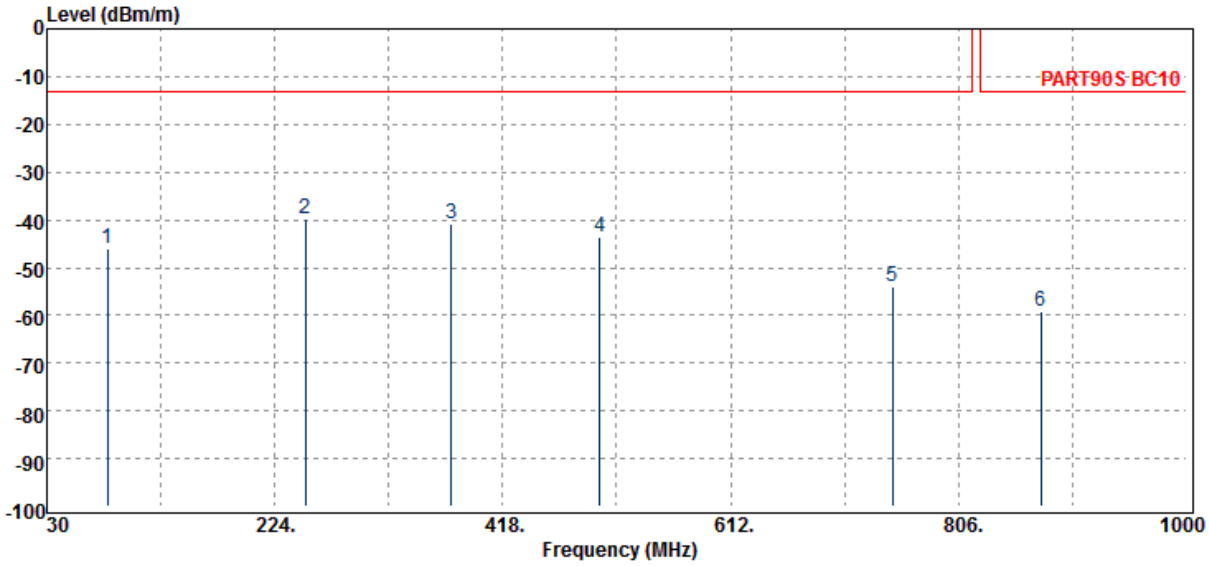


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
86.26	S	-55.54	-55.34	0.88	-1.08	-13.00	-42.54
250.19	S	-42.56	-46.52	5.59	-1.64	-13.00	-29.56
374.35	S	-38.74	-42.62	5.84	-1.96	-13.00	-25.74
500.45	S	-47.68	-51.28	5.91	-2.30	-13.00	-34.68
749.74	S	-55.96	-58.70	5.43	-2.70	-13.00	-42.96
875.84	S	-55.61	-58.04	5.51	-3.08	-13.00	-42.61

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Radiated Spurious Emission Measurement Result: CDMA BC10 Mode

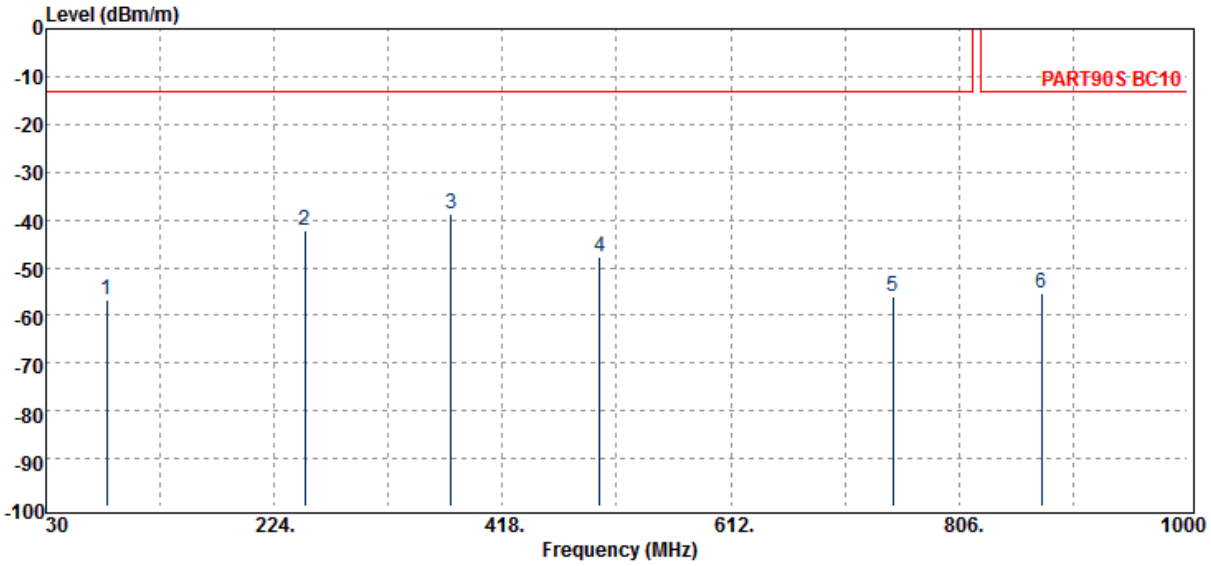
ARFCN	:CH 476	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-45.99	-44.67	-0.26	-1.06	-13.00	-32.99
250.19	S	-39.66	-43.61	5.59	-1.64	-13.00	-26.66
374.35	S	-40.67	-44.55	5.84	-1.96	-13.00	-27.67
500.45	S	-43.54	-47.15	5.91	-2.30	-13.00	-30.54
749.74	S	-53.95	-56.69	5.43	-2.70	-13.00	-40.95
875.84	S	-59.20	-61.63	5.51	-3.08	-13.00	-46.20

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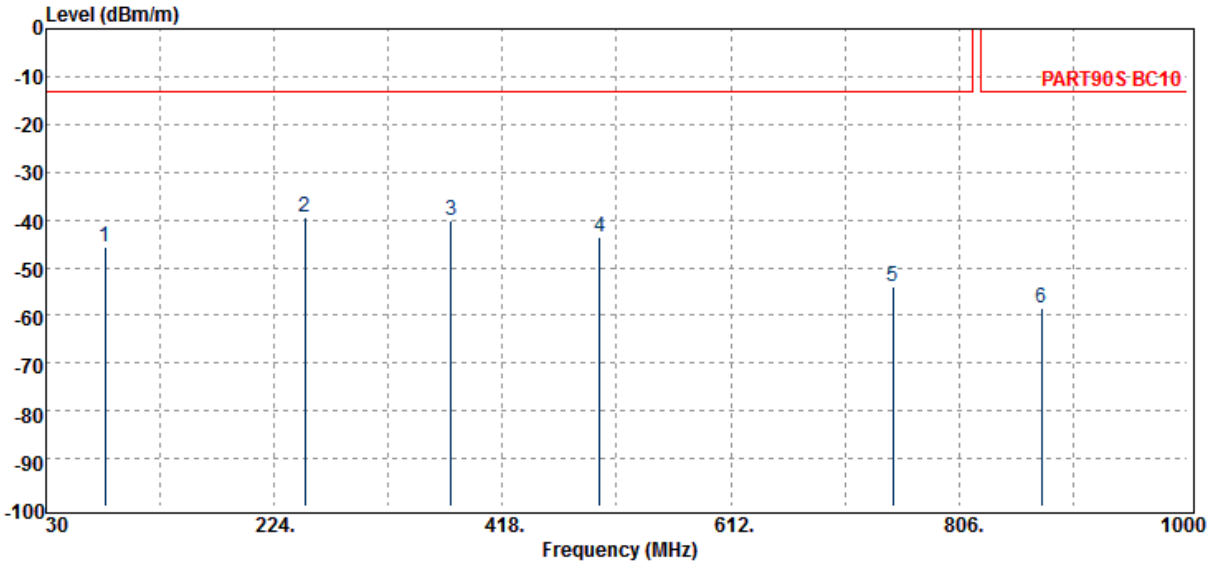
ARFCN	:CH 476	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-56.83	-55.51	-0.26	-1.06	-13.00	-43.83
250.19	S	-42.24	-46.19	5.59	-1.64	-13.00	-29.24
374.35	S	-38.81	-42.69	5.84	-1.96	-13.00	-25.81
500.45	S	-47.78	-51.39	5.91	-2.30	-13.00	-34.78
749.74	S	-56.10	-58.83	5.43	-2.70	-13.00	-43.10
875.84	S	-55.51	-57.94	5.51	-3.08	-13.00	-42.51

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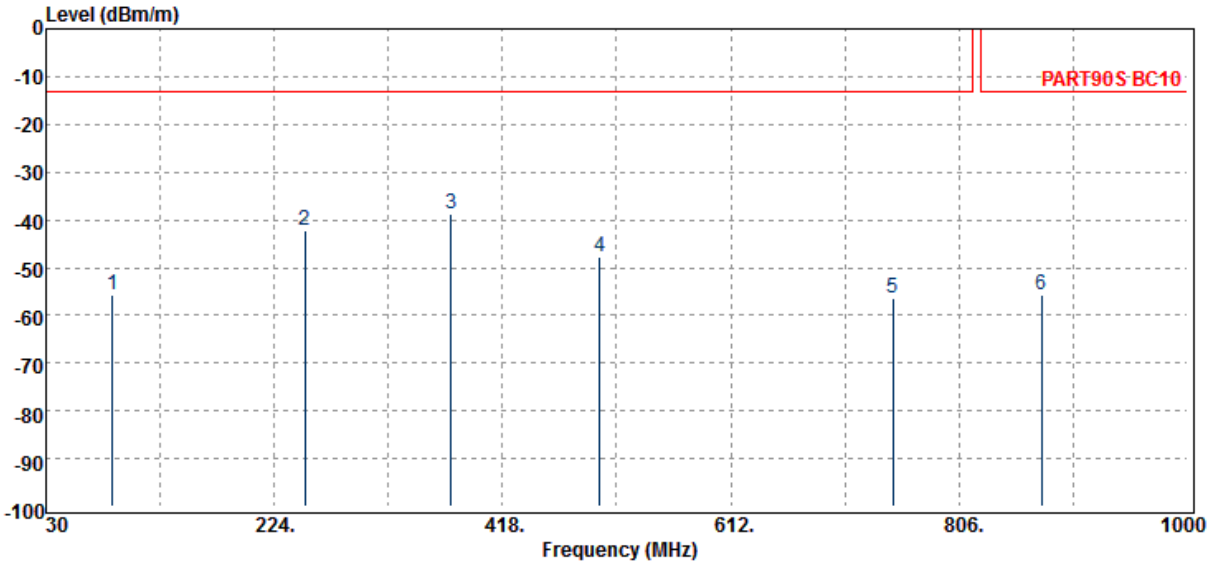
ARFCN	:CH 580	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
80.44	S	-45.82	-44.27	-0.50	-1.05	-13.00	-32.82
250.19	S	-39.52	-43.48	5.59	-1.64	-13.00	-26.52
374.35	S	-40.31	-44.19	5.84	-1.96	-13.00	-27.31
500.45	S	-43.63	-47.23	5.91	-2.30	-13.00	-30.63
749.74	S	-53.95	-56.68	5.43	-2.70	-13.00	-40.95
875.84	S	-58.60	-61.03	5.51	-3.08	-13.00	-45.60

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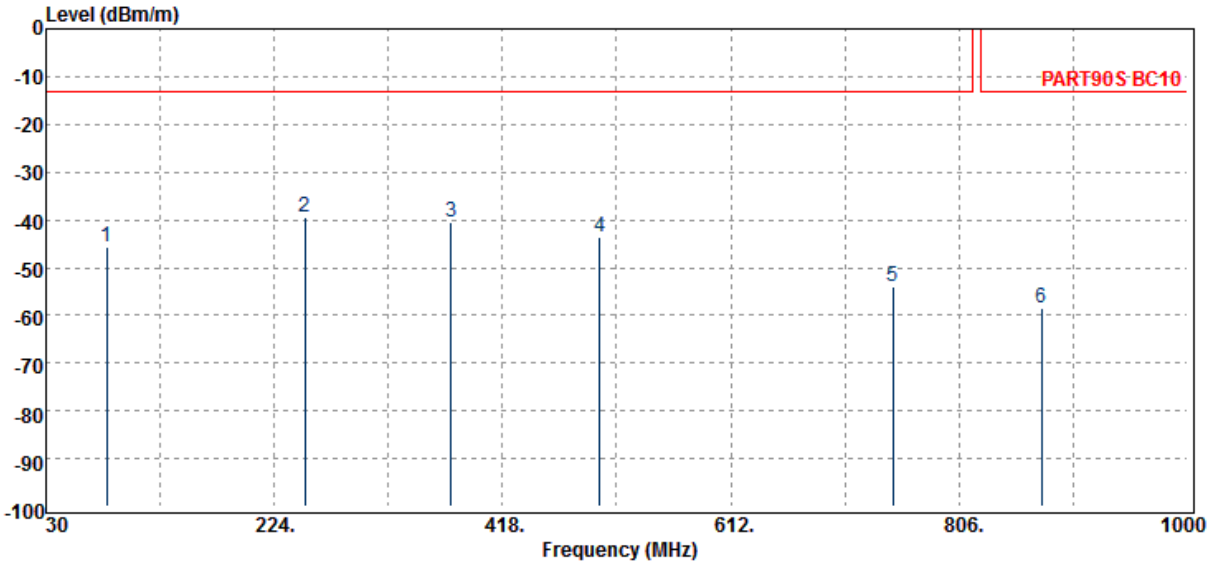
ARFCN	:CH 580	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
86.26	S	-55.79	-55.59	0.88	-1.08	-13.00	-42.79
250.19	S	-42.34	-46.29	5.59	-1.64	-13.00	-29.34
374.35	S	-38.69	-42.57	5.84	-1.96	-13.00	-25.69
500.45	S	-47.64	-51.25	5.91	-2.30	-13.00	-34.64
749.74	S	-56.47	-59.21	5.43	-2.70	-13.00	-43.47
875.84	S	-55.73	-58.17	5.51	-3.08	-13.00	-42.73

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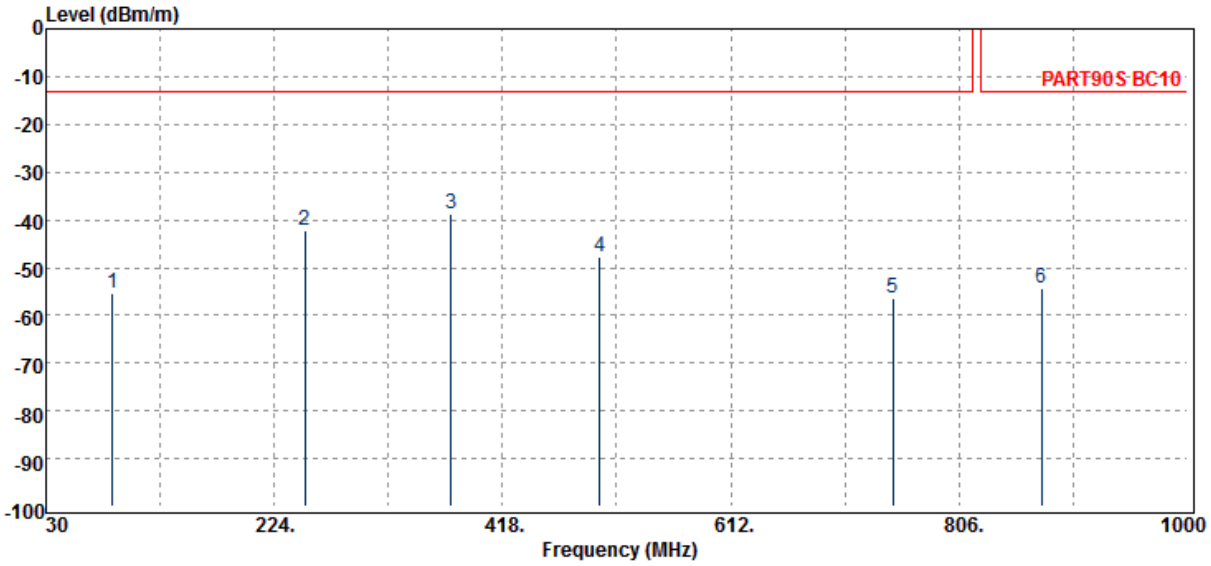
ARFCN	:CH 684	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-45.80	-44.48	-0.26	-1.06	-13.00	-32.80
250.19	S	-39.59	-43.55	5.59	-1.64	-13.00	-26.59
374.35	S	-40.39	-44.27	5.84	-1.96	-13.00	-27.39
500.45	S	-43.65	-47.25	5.91	-2.30	-13.00	-30.65
749.74	S	-54.09	-56.83	5.43	-2.70	-13.00	-41.09
875.84	S	-58.58	-61.01	5.51	-3.08	-13.00	-45.58

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ARFCN	:CH 684	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

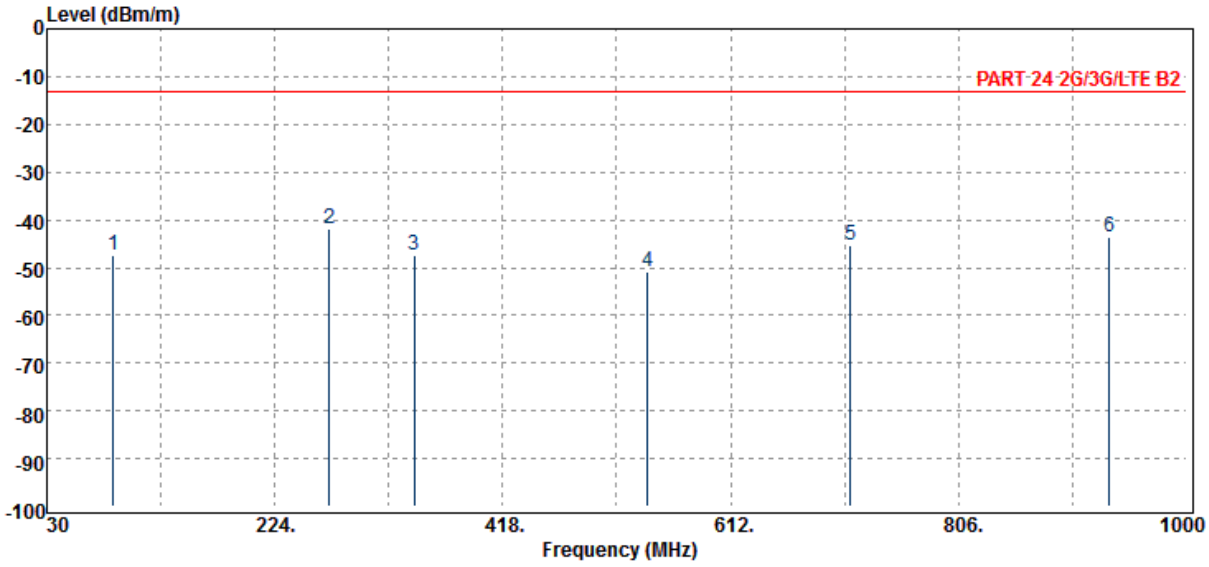


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
86.26	S	-55.24	-55.04	0.88	-1.08	-13.00	-42.24
250.19	S	-42.38	-46.34	5.59	-1.64	-13.00	-29.38
374.35	S	-38.68	-42.56	5.84	-1.96	-13.00	-25.68
500.45	S	-47.85	-51.46	5.91	-2.30	-13.00	-34.85
749.74	S	-56.23	-58.97	5.43	-2.70	-13.00	-43.23
875.84	S	-54.40	-56.83	5.51	-3.08	-13.00	-41.40

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

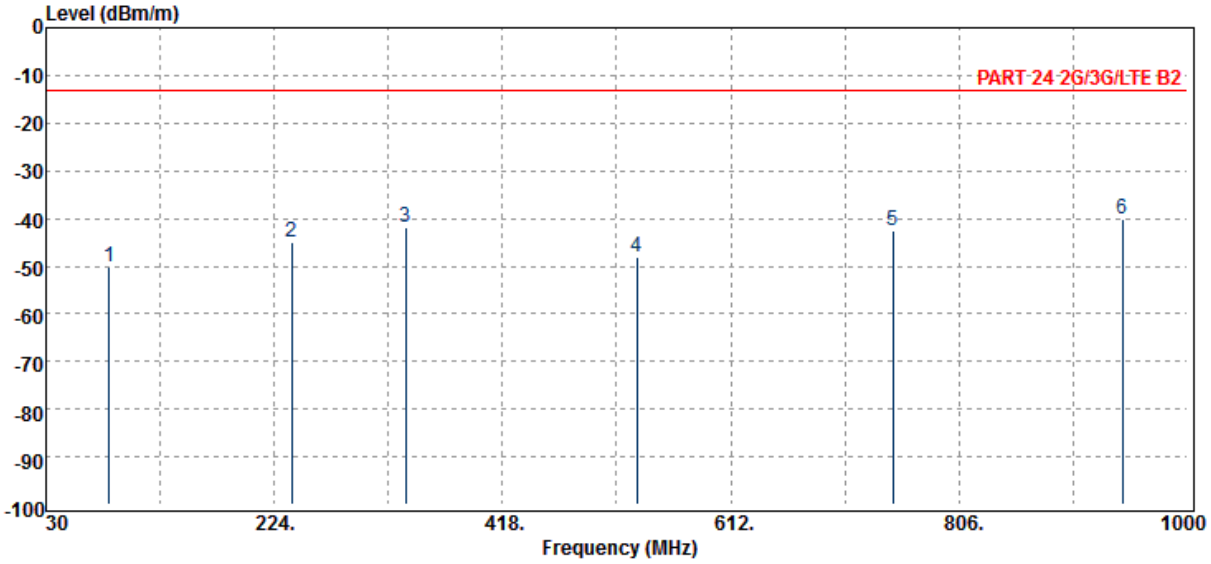
ARFCN	:CH 18607 QPSK BW 1.4 RB 1 5	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
86.26	S	-47.39	-7.00	0.88	-1.08	-13.00	-34.39
270.56	S	-41.88	-6.20	5.74	-1.69	-13.00	-28.88
342.34	S	-47.35	-6.04	5.89	-1.94	-13.00	-34.35
541.19	S	-51.02	-2.11	5.77	-2.53	-13.00	-38.02
713.85	S	-45.23	0.80	5.50	-2.61	-13.00	-32.23
934.04	S	-43.48	5.84	5.39	-3.18	-13.00	-30.48

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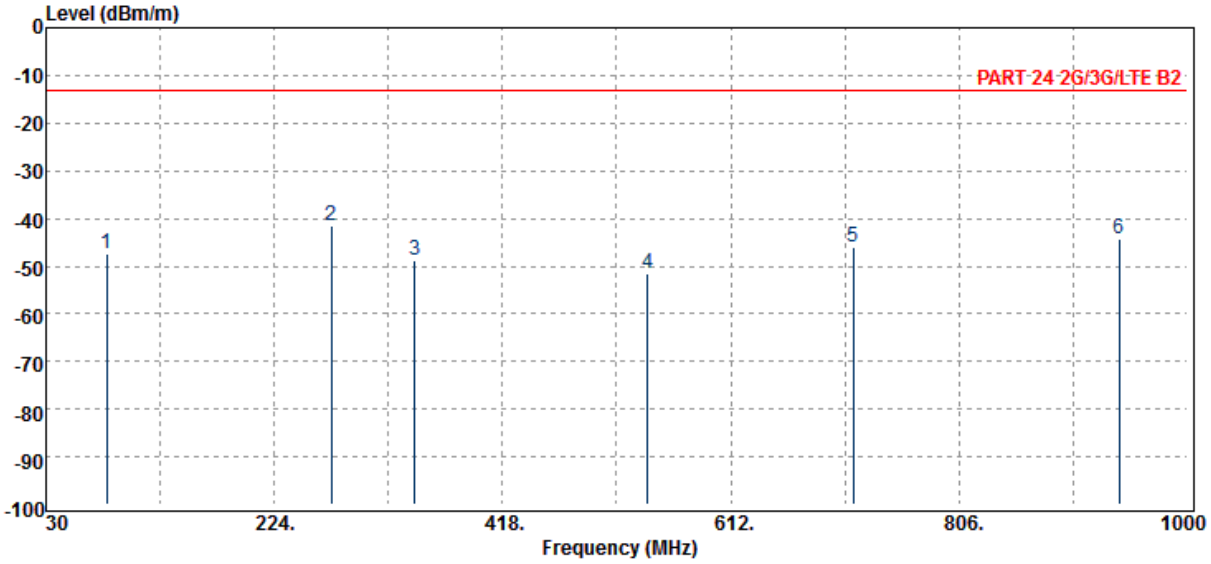
ARFCN	:CH 18607 QPSK BW 1.4 RB 1 5	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
83.35	S	-50.14	-7.74	0.20	-1.06	-13.00	-37.14
238.55	S	-45.08	-10.68	5.44	-1.60	-13.00	-32.08
335.55	S	-41.76	-6.75	5.87	-1.92	-13.00	-28.76
532.46	S	-48.10	-4.69	5.80	-2.48	-13.00	-35.10
749.74	S	-42.39	0.05	5.43	-2.70	-13.00	-29.39
944.71	S	-40.18	3.70	5.39	-3.20	-13.00	-27.18

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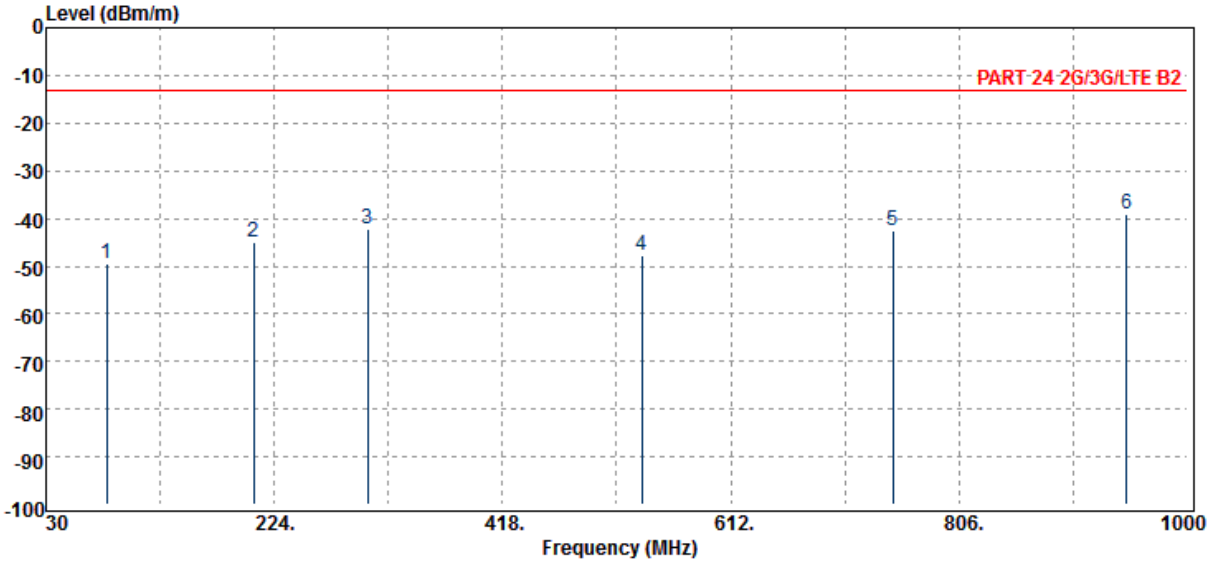
ARFCN	:CH 18900 QPSK BW 1.4 RB 1 5	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-47.29	-6.34	-0.26	-1.06	-13.00	-34.29
272.50	S	-41.65	-6.05	5.69	-1.70	-13.00	-28.65
343.31	S	-48.88	-6.06	5.89	-1.94	-13.00	-35.88
541.19	S	-51.40	-2.11	5.77	-2.53	-13.00	-38.40
715.79	S	-46.09	0.80	5.50	-2.61	-13.00	-33.09
941.80	S	-44.42	5.49	5.39	-3.19	-13.00	-31.42

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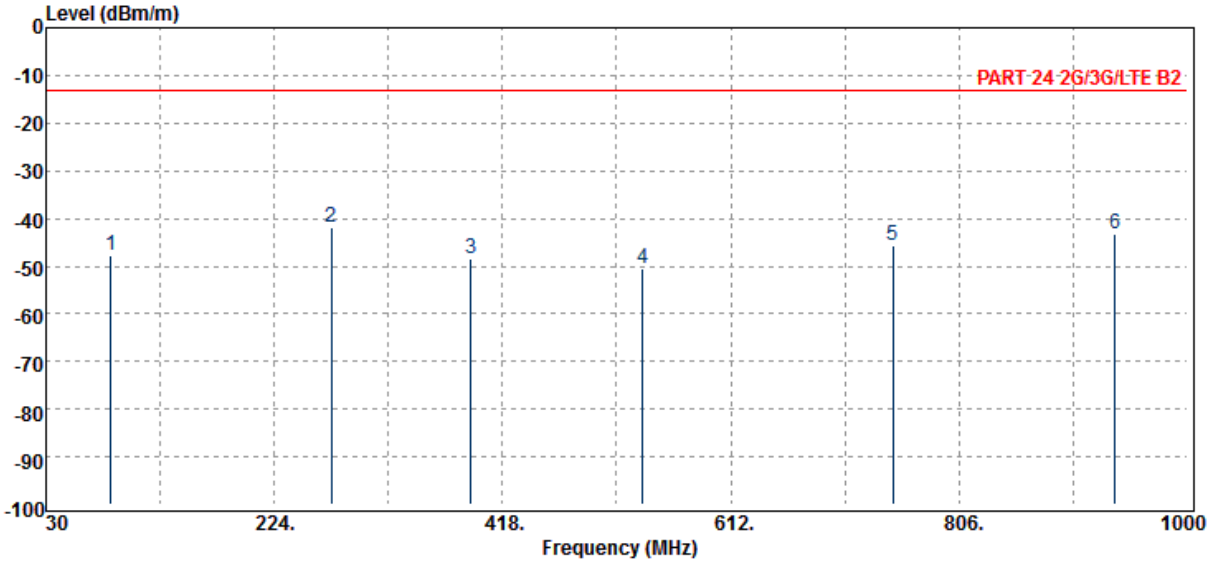
ARFCN	:CH 18900 QPSK BW 1.4 RB 1 5	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-49.46	-6.96	-0.26	-1.06	-13.00	-36.46
206.54	S	-45.08	-11.89	5.70	-1.54	-13.00	-32.08
303.54	S	-42.12	-9.01	5.78	-1.80	-13.00	-29.12
536.34	S	-47.67	-4.60	5.78	-2.50	-13.00	-34.67
749.74	S	-42.64	0.05	5.43	-2.70	-13.00	-29.64
948.59	S	-39.19	3.74	5.39	-3.20	-13.00	-26.19

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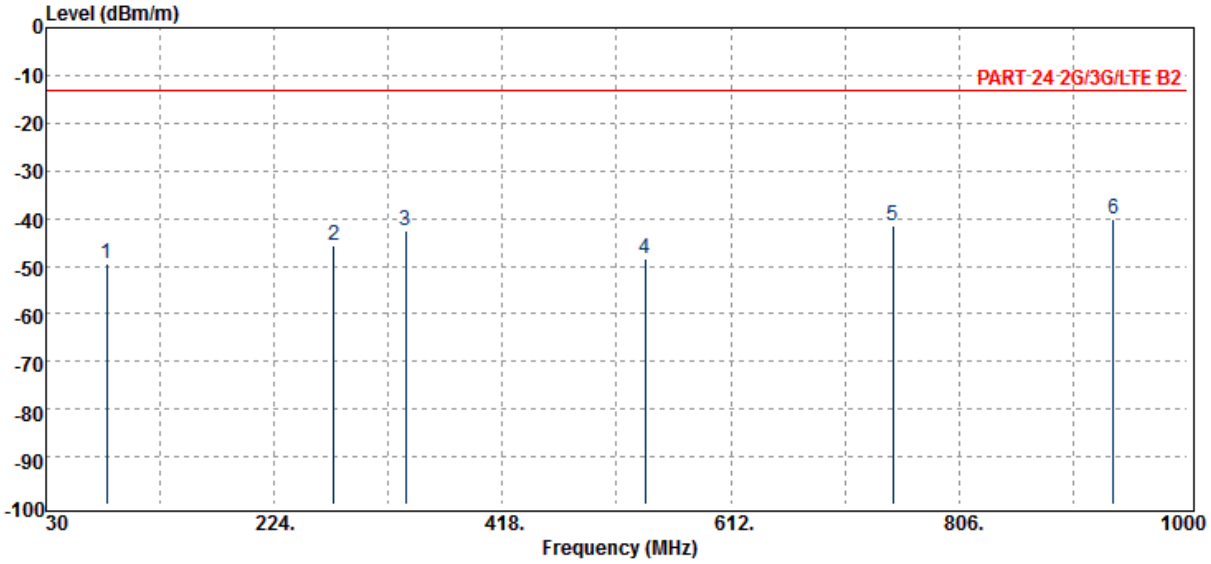
ARFCN	:CH 19193 QPSK BW 1.4 RB 1 5	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
85.29	S	-47.75	-7.02	0.65	-1.07	-13.00	-34.75
272.50	S	-42.03	-6.05	5.69	-1.70	-13.00	-29.03
390.84	S	-48.45	-5.81	5.80	-1.95	-13.00	-35.45
537.31	S	-50.66	-2.14	5.78	-2.51	-13.00	-37.66
749.74	S	-45.80	1.57	5.43	-2.70	-13.00	-32.80
938.89	S	-43.40	5.56	5.39	-3.19	-13.00	-30.40

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ARFCN	:CH 19193 QPSK BW 1.4 RB 1 5	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

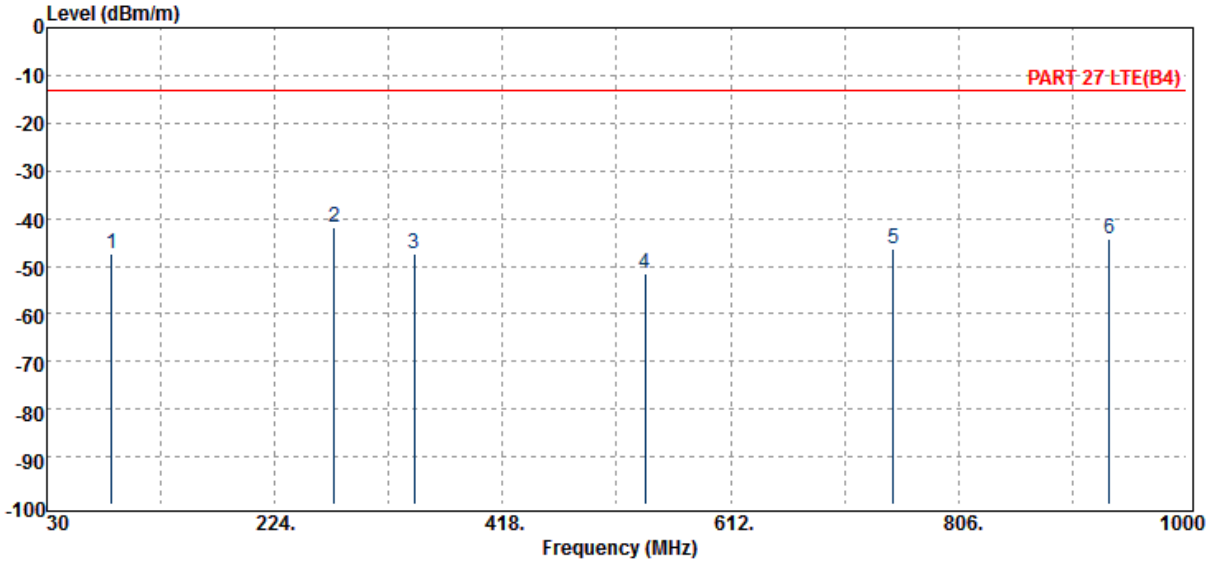


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-49.55	-6.96	-0.26	-1.06	-13.00	-36.55
274.44	S	-45.64	-9.73	5.63	-1.70	-13.00	-32.64
335.55	S	-42.51	-6.75	5.87	-1.92	-13.00	-29.51
539.25	S	-48.36	-4.81	5.77	-2.52	-13.00	-35.36
749.74	S	-41.45	0.05	5.43	-2.70	-13.00	-28.45
936.95	S	-40.04	3.53	5.39	-3.18	-13.00	-27.04

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 4 (The Worst Case)

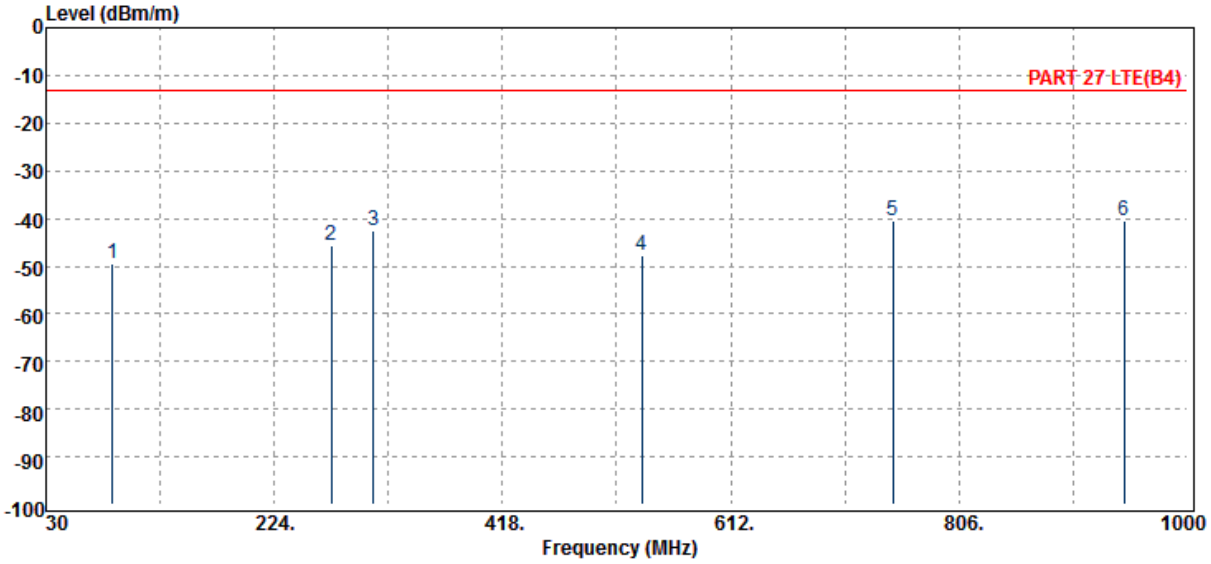
ARFCN	:CH 19975 16QAM BW 5 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1712.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
85.29	S	-47.33	-7.02	0.65	-1.07	-13.00	-34.33
274.44	S	-41.75	-5.94	5.63	-1.70	-13.00	-28.75
342.34	S	-47.25	-6.04	5.89	-1.94	-13.00	-34.25
539.25	S	-51.57	-2.14	5.77	-2.52	-13.00	-38.57
750.71	S	-46.49	1.59	5.43	-2.70	-13.00	-33.49
934.04	S	-44.32	5.84	5.39	-3.18	-13.00	-31.32

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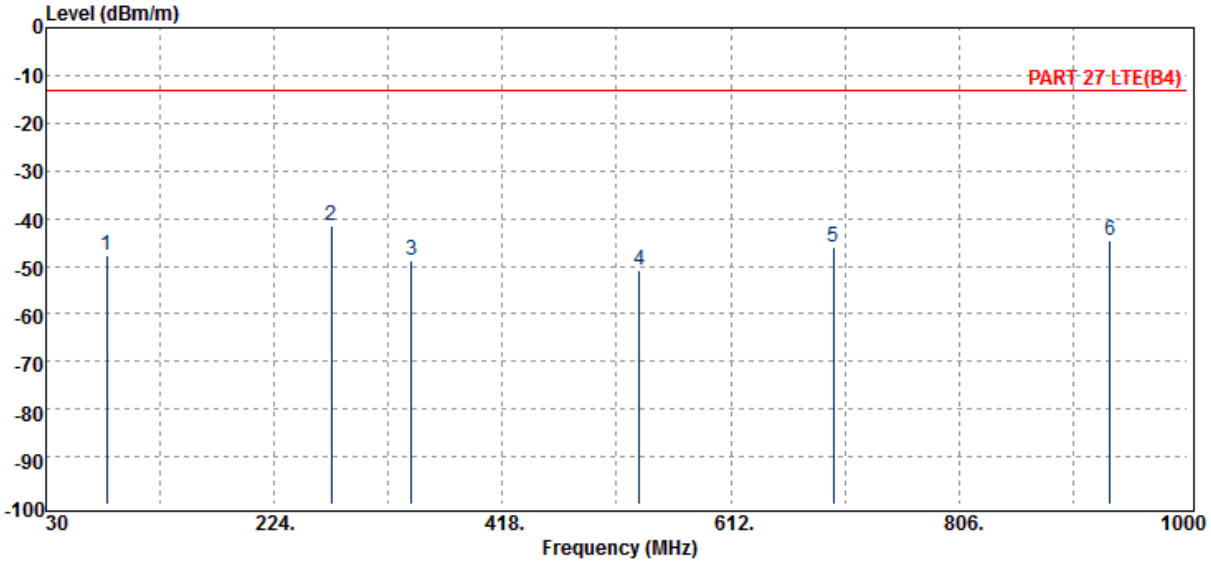
ARFCN	:CH 19975 16QAM BW 5 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1712.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
86.26	S	-49.32	-8.22	0.88	-1.08	-13.00	-36.32
272.50	S	-45.70	-9.90	5.69	-1.70	-13.00	-32.70
308.39	S	-42.58	-8.71	5.80	-1.82	-13.00	-29.58
536.34	S	-47.91	-4.60	5.78	-2.50	-13.00	-34.91
749.74	S	-40.45	0.05	5.43	-2.70	-13.00	-27.45
946.65	S	-40.51	3.66	5.39	-3.20	-13.00	-27.51

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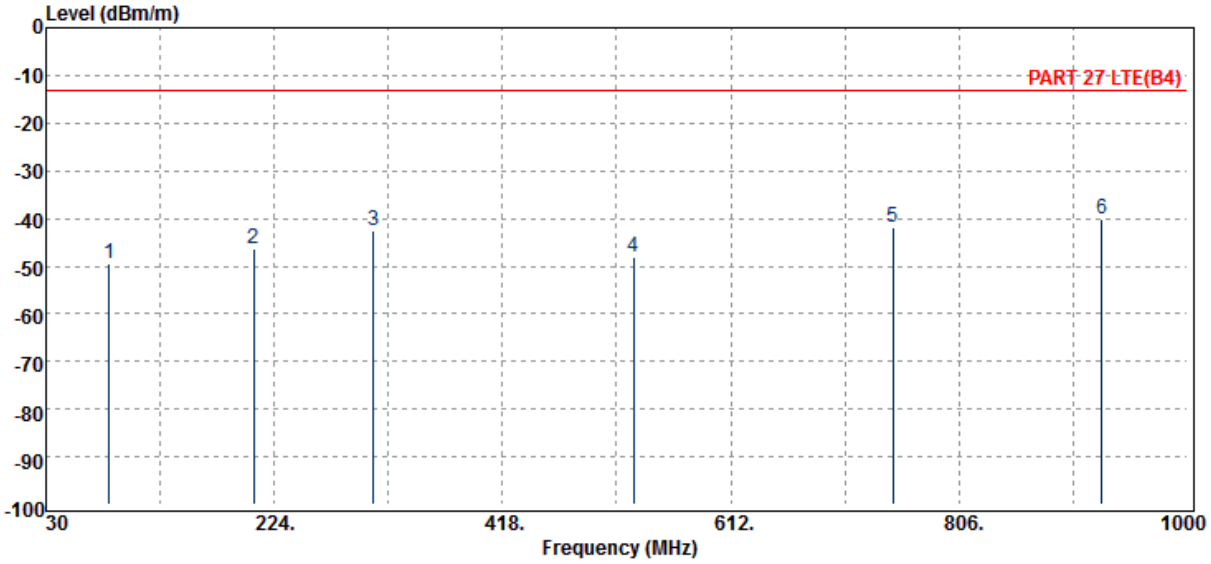
ARFCN	:CH 20175 16QAM BW 5 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-47.72	-6.34	-0.26	-1.06	-13.00	-34.72
272.50	S	-41.52	-6.05	5.69	-1.70	-13.00	-28.52
340.40	S	-48.70	-6.18	5.89	-1.93	-13.00	-35.70
534.40	S	-50.82	-2.13	5.79	-2.49	-13.00	-37.82
699.30	S	-46.17	1.09	5.54	-2.61	-13.00	-33.17
934.04	S	-44.47	5.84	5.39	-3.18	-13.00	-31.47

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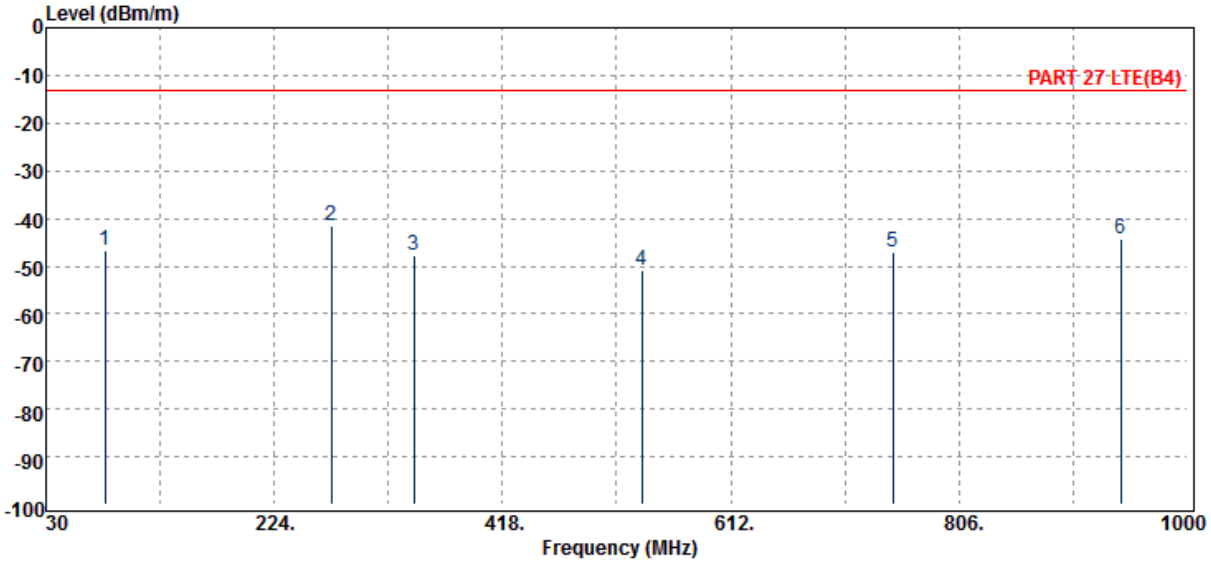
ARFCN	:CH 20175 16QAM BW 5 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
83.35	S	-49.40	-7.74	0.20	-1.06	-13.00	-36.40
206.54	S	-46.37	-11.89	5.70	-1.54	-13.00	-33.37
308.39	S	-42.60	-8.71	5.80	-1.82	-13.00	-29.60
529.55	S	-48.19	-4.64	5.81	-2.47	-13.00	-35.19
749.74	S	-41.92	0.05	5.43	-2.70	-13.00	-28.92
927.25	S	-40.24	3.71	5.40	-3.17	-13.00	-27.24

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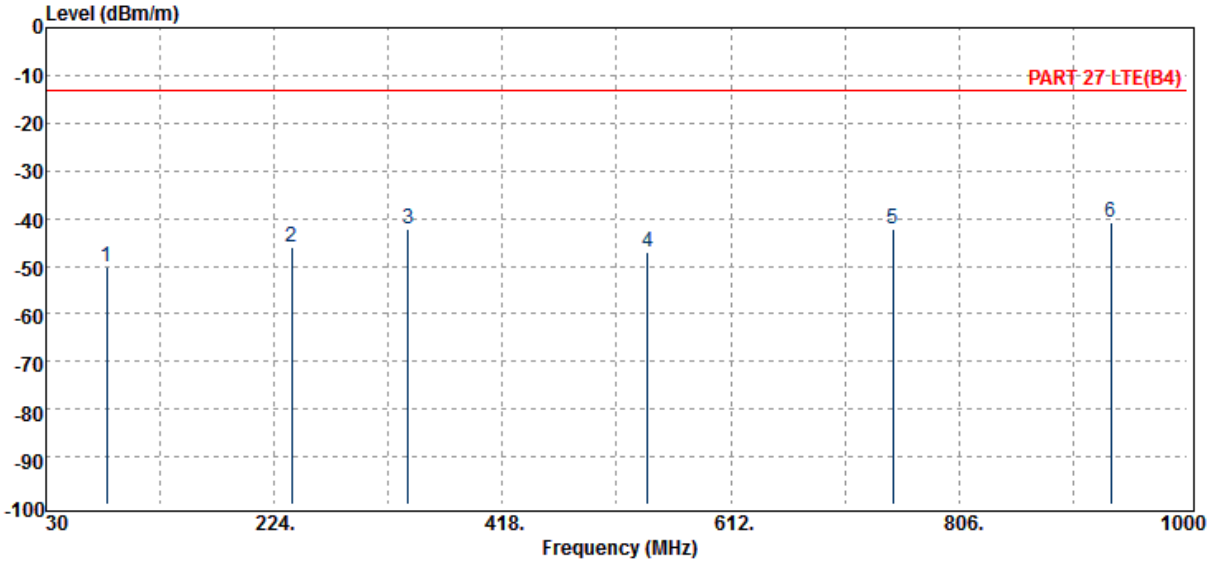
ARFCN	:CH 20375 16QAM BW 5 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1752.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
80.44	S	-46.84	-6.04	-0.50	-1.05	-13.00	-33.84
272.50	S	-41.43	-6.05	5.69	-1.70	-13.00	-28.43
342.34	S	-47.76	-6.04	5.89	-1.94	-13.00	-34.76
536.34	S	-50.90	-2.12	5.78	-2.50	-13.00	-37.90
749.74	S	-47.21	1.57	5.43	-2.70	-13.00	-34.21
943.74	S	-44.28	5.57	5.39	-3.19	-13.00	-31.28

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ARFCN	:CH 20375 16QAM BW 5 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1752.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

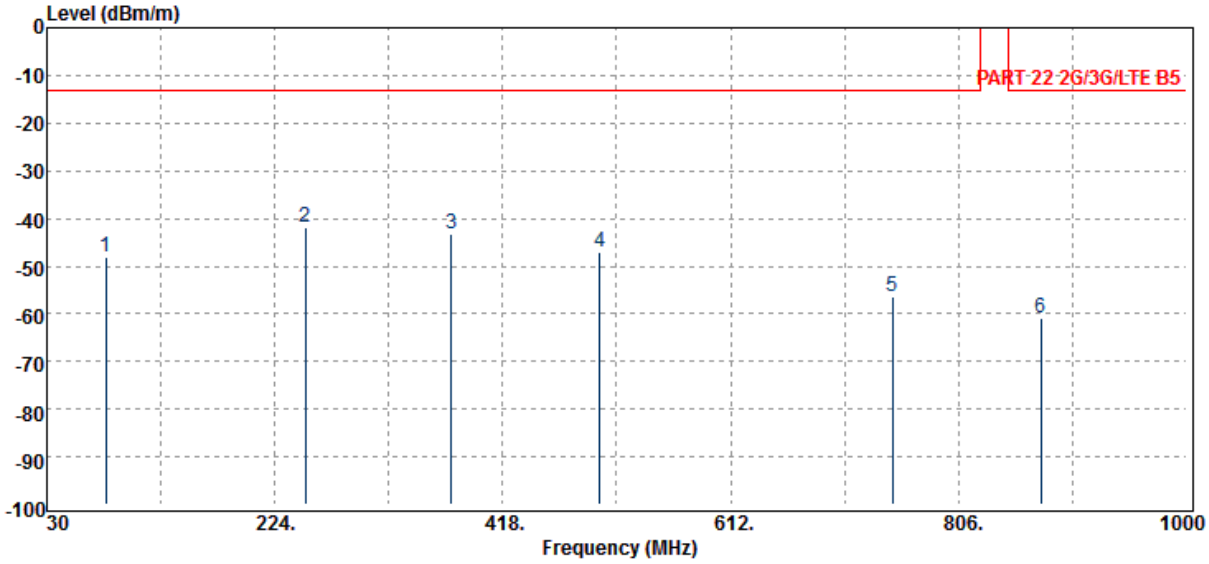


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
81.41	S	-50.30	-6.96	-0.26	-1.06	-13.00	-37.30
238.55	S	-46.12	-10.68	5.44	-1.60	-13.00	-33.12
337.49	S	-42.16	-6.68	5.88	-1.92	-13.00	-29.16
541.19	S	-47.21	-4.86	5.77	-2.53	-13.00	-34.21
749.74	S	-42.09	0.05	5.43	-2.70	-13.00	-29.09
935.01	S	-40.69	3.65	5.39	-3.18	-13.00	-27.69

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Radiated Spurious Emission Measurement Result: 3MHz BW LTE-Band 5 (The Worst Case)

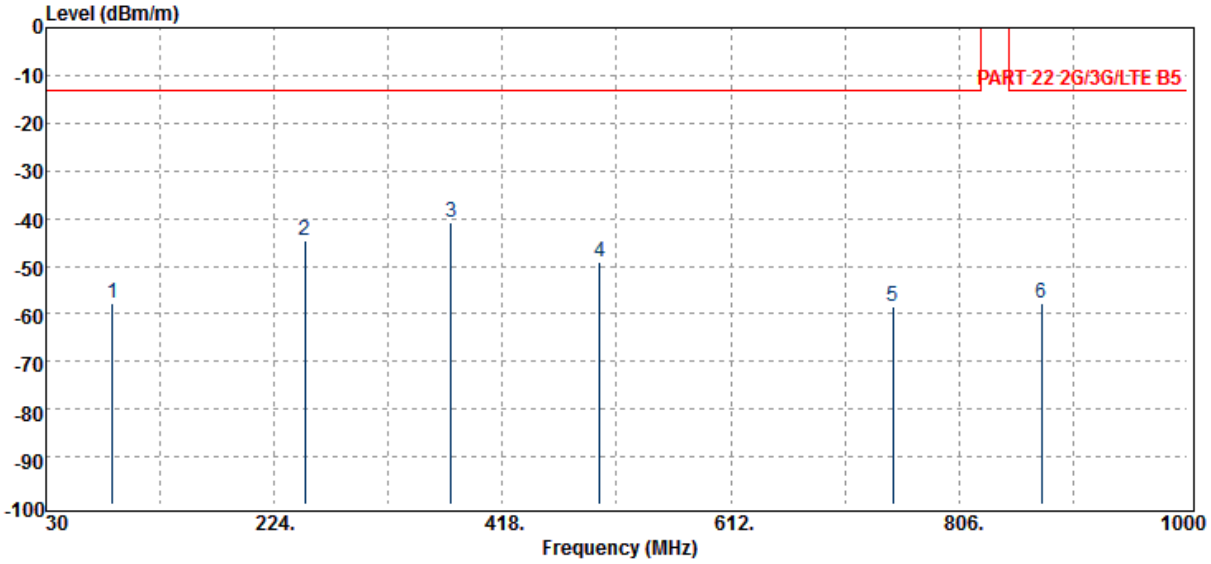
ARFCN	:CH 20415 16QAM BW 3 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
80.44	S	-48.09	-44.39	-2.65	-1.05	-13.00	-35.09
250.19	S	-41.74	-43.55	3.44	-1.64	-13.00	-28.74
374.35	S	-43.34	-45.08	3.69	-1.96	-13.00	-30.34
500.45	S	-47.18	-48.64	3.76	-2.30	-13.00	-34.18
749.74	S	-56.53	-57.11	3.28	-2.70	-13.00	-43.53
875.84	S	-60.76	-61.04	3.36	-3.08	-13.00	-47.76

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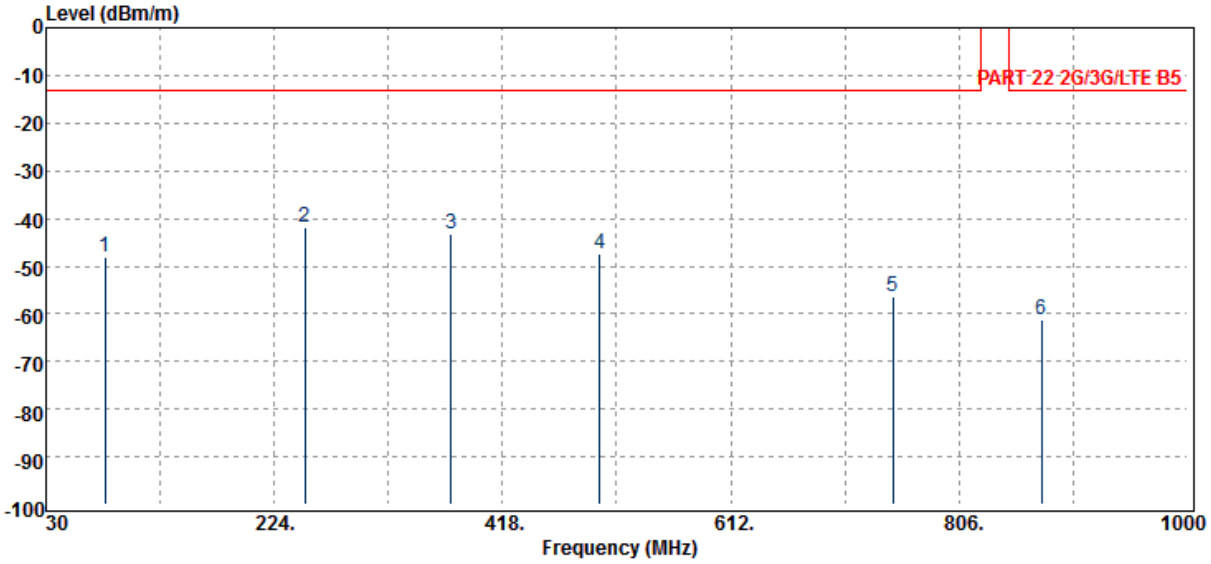
ARFCN	:CH 20415 16QAM BW 3 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
86.26	S	-57.81	-55.46	-1.27	-1.08	-13.00	-44.81
250.19	S	-44.71	-46.51	3.44	-1.64	-13.00	-31.71
374.35	S	-40.71	-42.44	3.69	-1.96	-13.00	-27.71
500.45	S	-48.99	-50.44	3.76	-2.30	-13.00	-35.99
749.74	S	-58.62	-59.21	3.28	-2.70	-13.00	-45.62
875.84	S	-57.62	-57.90	3.36	-3.08	-13.00	-44.62

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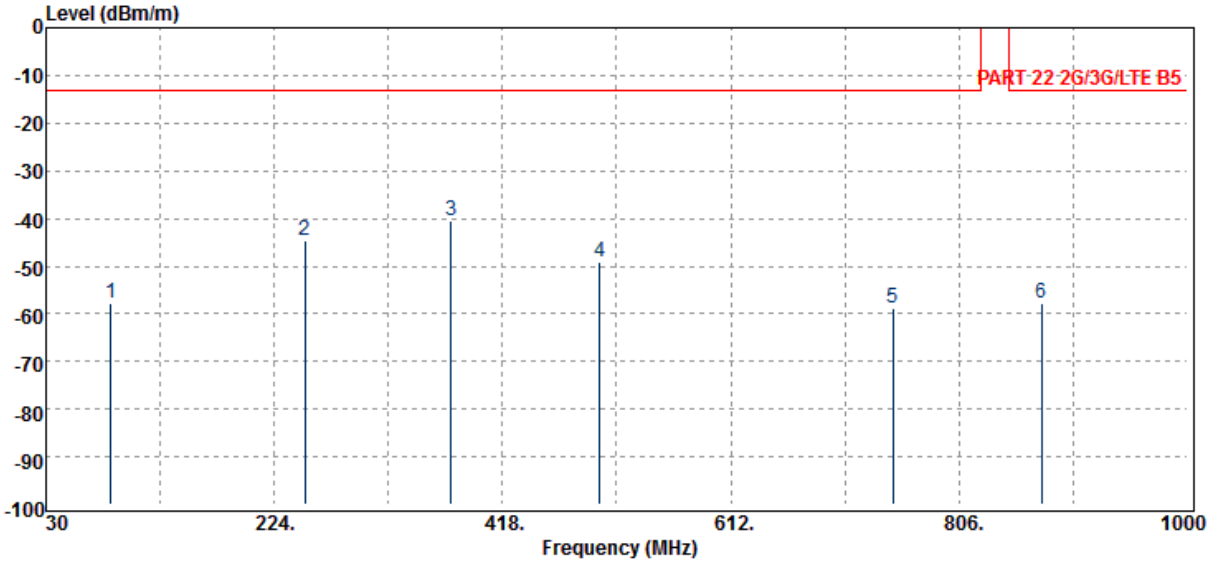
ARFCN	:CH 20525 16QAM BW 3 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
80.44	S	-48.12	-44.42	-2.65	-1.05	-13.00	-35.12
250.19	S	-41.70	-43.50	3.44	-1.64	-13.00	-28.70
374.35	S	-43.29	-45.02	3.69	-1.96	-13.00	-30.29
500.45	S	-47.46	-48.91	3.76	-2.30	-13.00	-34.46
749.74	S	-56.30	-56.89	3.28	-2.70	-13.00	-43.30
875.84	S	-61.14	-61.42	3.36	-3.08	-13.00	-48.14

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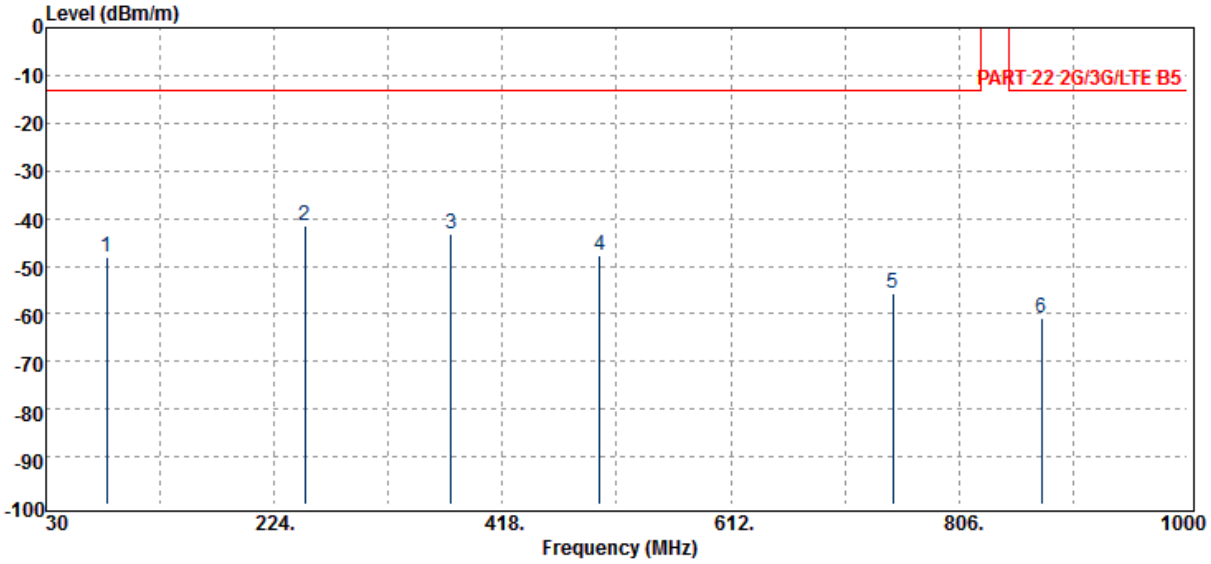
ARFCN	:CH 20525 16QAM BW 3 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
85.29	S	-57.92	-55.36	-1.50	-1.07	-13.00	-44.92
250.19	S	-44.50	-46.31	3.44	-1.64	-13.00	-31.50
374.35	S	-40.60	-42.33	3.69	-1.96	-13.00	-27.60
500.45	S	-49.00	-50.45	3.76	-2.30	-13.00	-36.00
749.74	S	-58.94	-59.52	3.28	-2.70	-13.00	-45.94
875.84	S	-57.86	-58.14	3.36	-3.08	-13.00	-44.86

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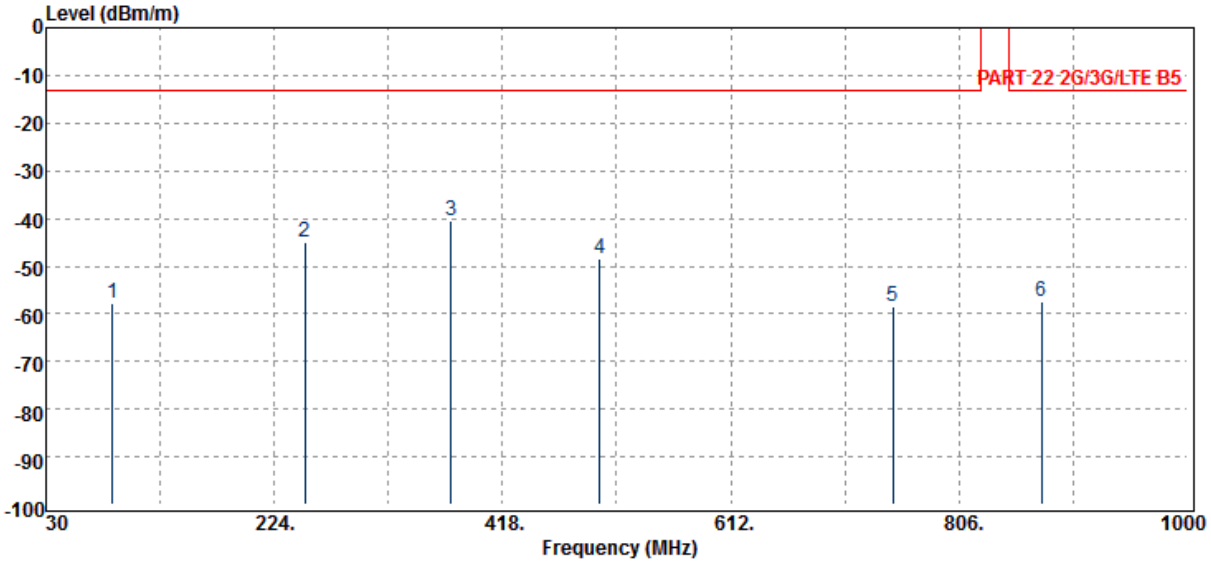
ARFCN	:CH 20643 16QAM BW 3 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
81.41	S	-48.02	-44.55	-2.41	-1.06	-13.00	-35.02
250.19	S	-41.66	-43.47	3.44	-1.64	-13.00	-28.66
374.35	S	-43.42	-45.16	3.69	-1.96	-13.00	-30.42
500.45	S	-47.83	-49.29	3.76	-2.30	-13.00	-34.83
749.74	S	-55.72	-56.31	3.28	-2.70	-13.00	-42.72
875.84	S	-60.91	-61.20	3.36	-3.08	-13.00	-47.91

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ARFCN	:CH 20643 16QAM BW 3 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

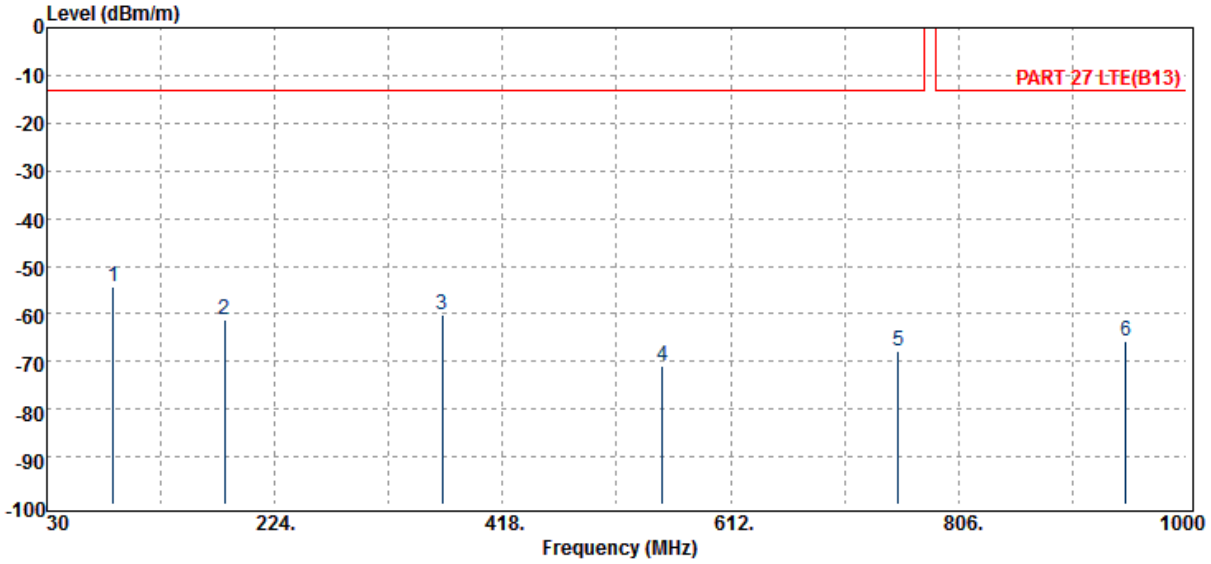


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
86.26	S	-57.93	-55.59	-1.27	-1.08	-13.00	-44.93
250.19	S	-45.03	-46.83	3.44	-1.64	-13.00	-32.03
374.35	S	-40.56	-42.29	3.69	-1.96	-13.00	-27.56
500.45	S	-48.61	-50.06	3.76	-2.30	-13.00	-35.61
749.74	S	-58.53	-59.12	3.28	-2.70	-13.00	-45.53
875.84	S	-57.45	-57.73	3.36	-3.08	-13.00	-44.45

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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(The Worst Case)

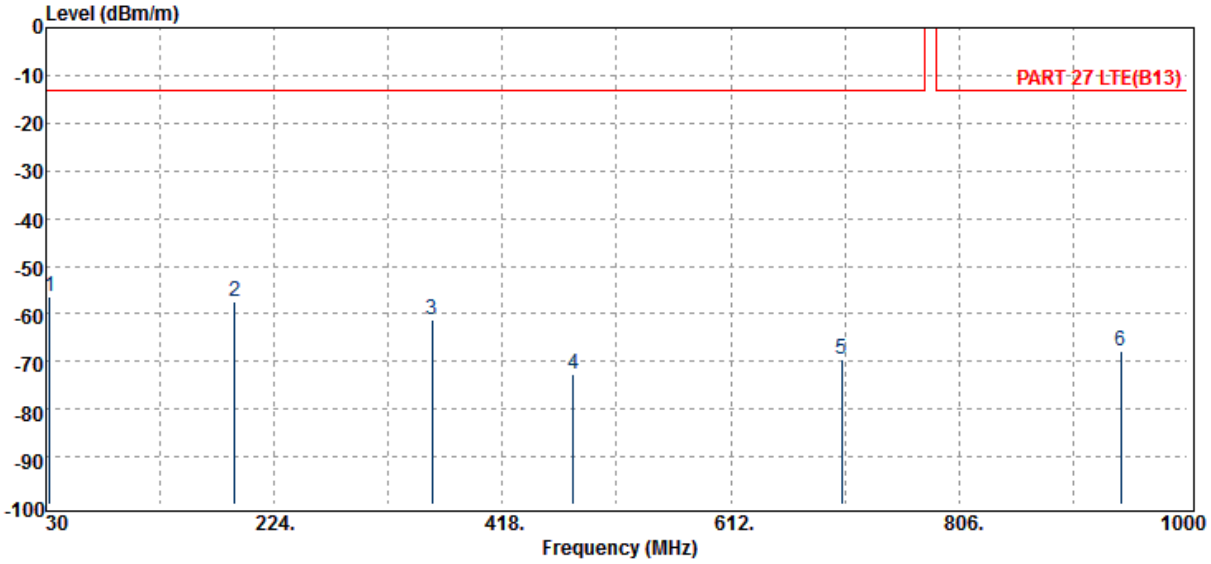
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
86.26	S	-54.38	-52.03	-1.27	-1.08	-13.00	-41.38
181.32	S	-61.18	-60.89	1.21	-1.50	-13.00	-48.18
366.59	S	-60.34	-62.10	3.71	-1.96	-13.00	-47.34
553.80	S	-70.87	-71.85	3.58	-2.59	-13.00	-57.87
754.59	S	-67.85	-68.44	3.30	-2.71	-13.00	-54.85
948.59	S	-65.63	-65.67	3.24	-3.20	-13.00	-52.63

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ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



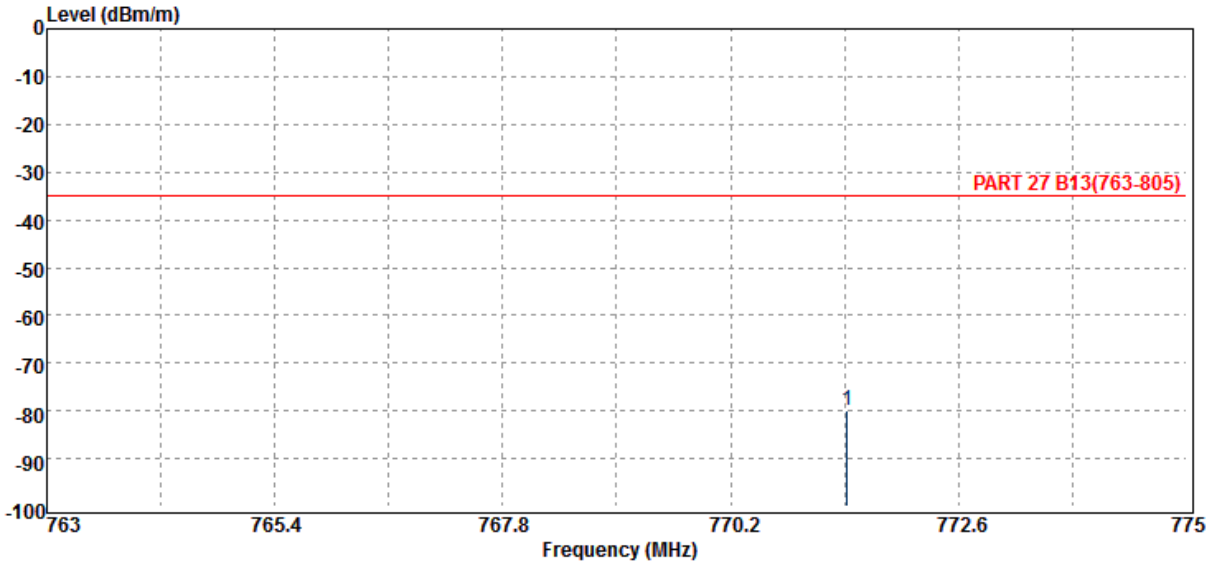
Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-56.36	-41.47	-14.13	-0.76	-13.00	-43.36
190.05	S	-57.30	-58.44	2.66	-1.52	-13.00	-44.30
357.86	S	-61.26	-63.04	3.74	-1.96	-13.00	-48.26
478.14	S	-72.65	-74.06	3.58	-2.17	-13.00	-59.65
706.09	S	-69.57	-70.34	3.37	-2.60	-13.00	-56.57
943.74	S	-67.72	-67.77	3.24	-3.19	-13.00	-54.72

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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(The Worst Case)

(763MHz -755MHz)

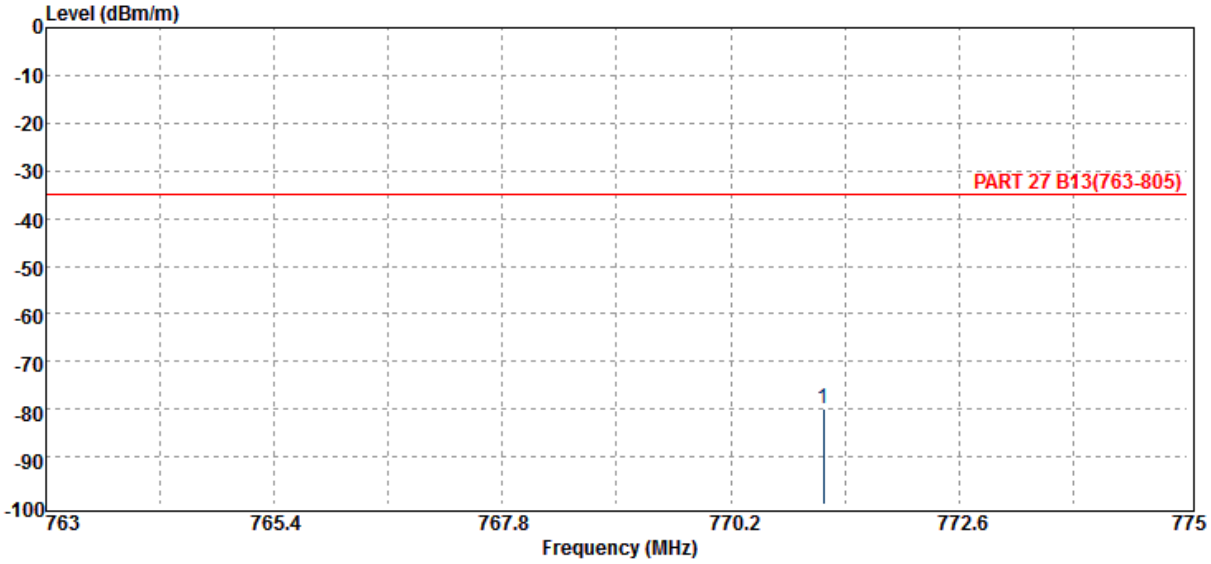
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
771.42	H	-79.84	-80.44	3.35	-2.75	-35.00	-44.84

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ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

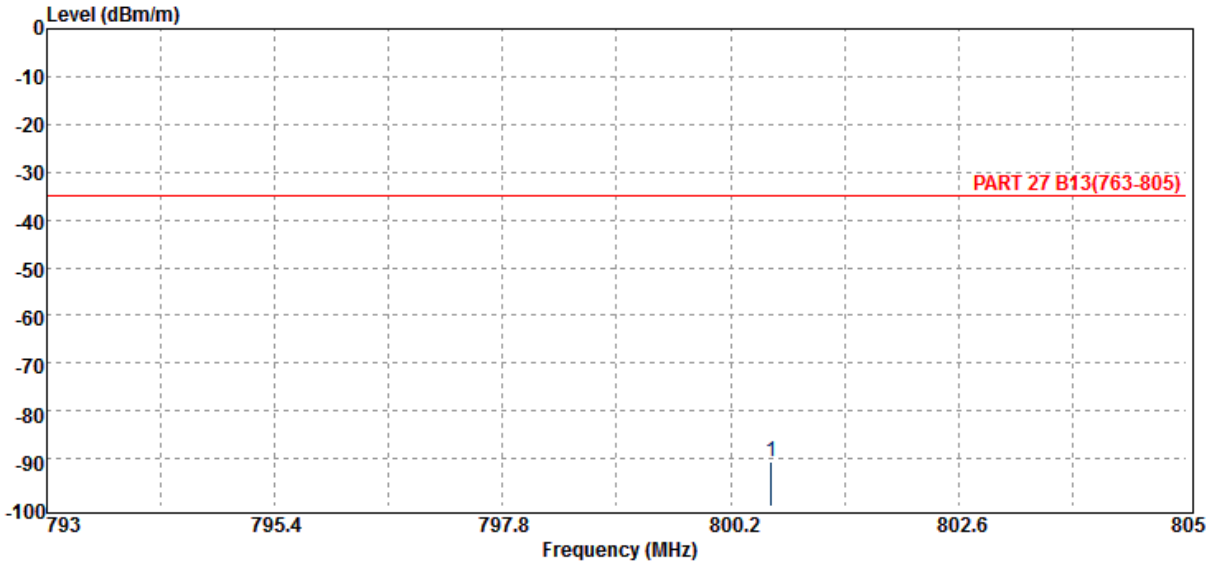


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
771.17	H	-79.86	-80.46	3.35	-2.75	-35.00	-44.86

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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(The Worst Case) (793MHz -805MHz)

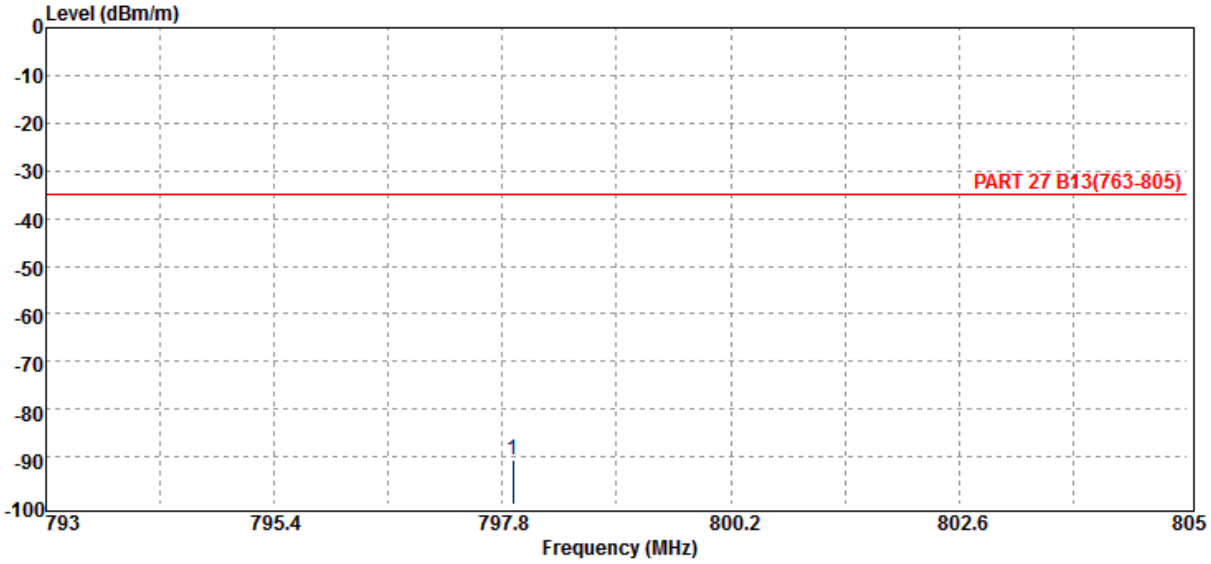
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
800.63	H	-90.51	-91.10	3.44	-2.85	-35.00	-55.51

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ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

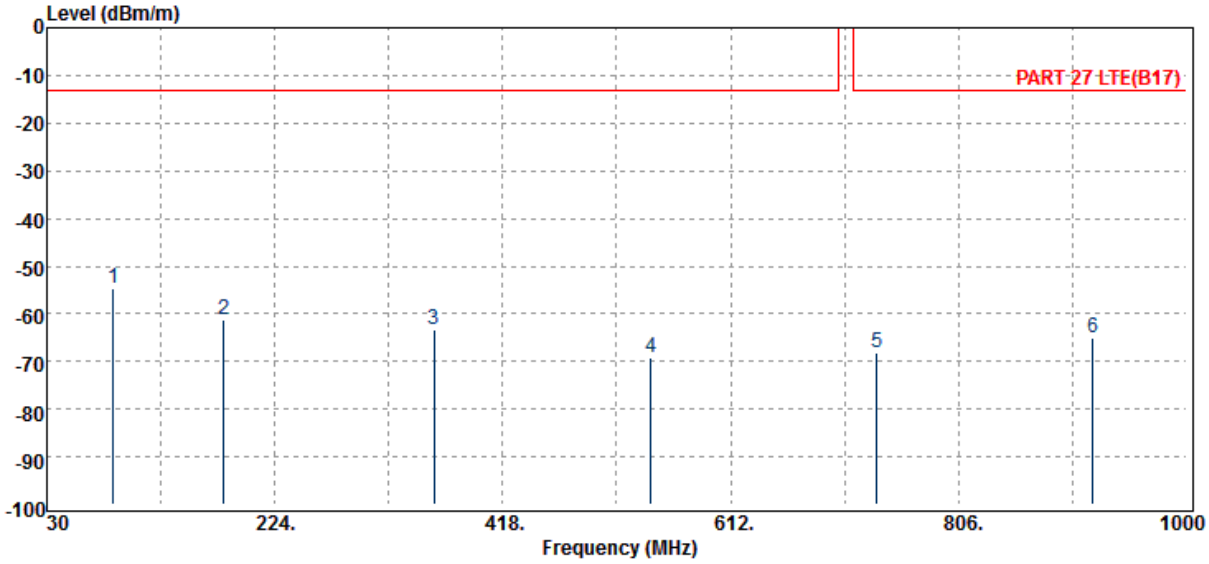


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
797.91	H	-90.68	-91.27	3.44	-2.84	-35.00	-55.68

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (The Worst Case)

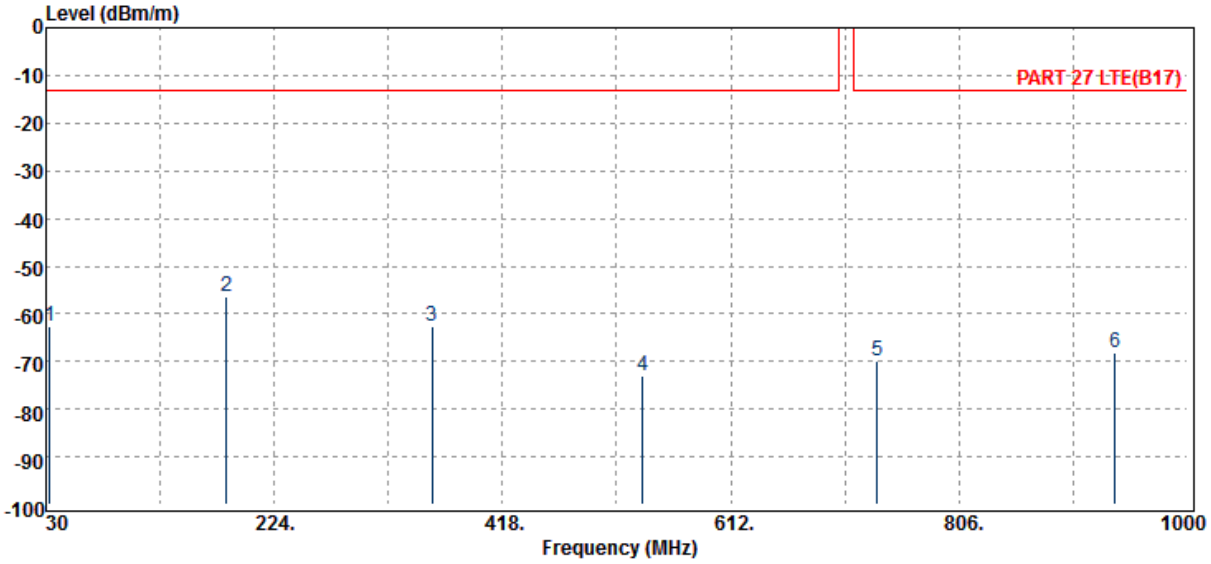
ARFCN	:CH 23755 16QAM BW 5 RB1 24	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
86.26	S	-54.64	-52.29	-1.27	-1.08	-13.00	-41.64
180.35	S	-61.14	-60.69	1.05	-1.50	-13.00	-48.14
359.80	S	-63.25	-65.02	3.73	-1.96	-13.00	-50.25
544.10	S	-69.19	-70.25	3.61	-2.54	-13.00	-56.19
736.16	S	-68.28	-68.93	3.31	-2.66	-13.00	-55.28
920.46	S	-65.22	-65.32	3.25	-3.16	-13.00	-52.22

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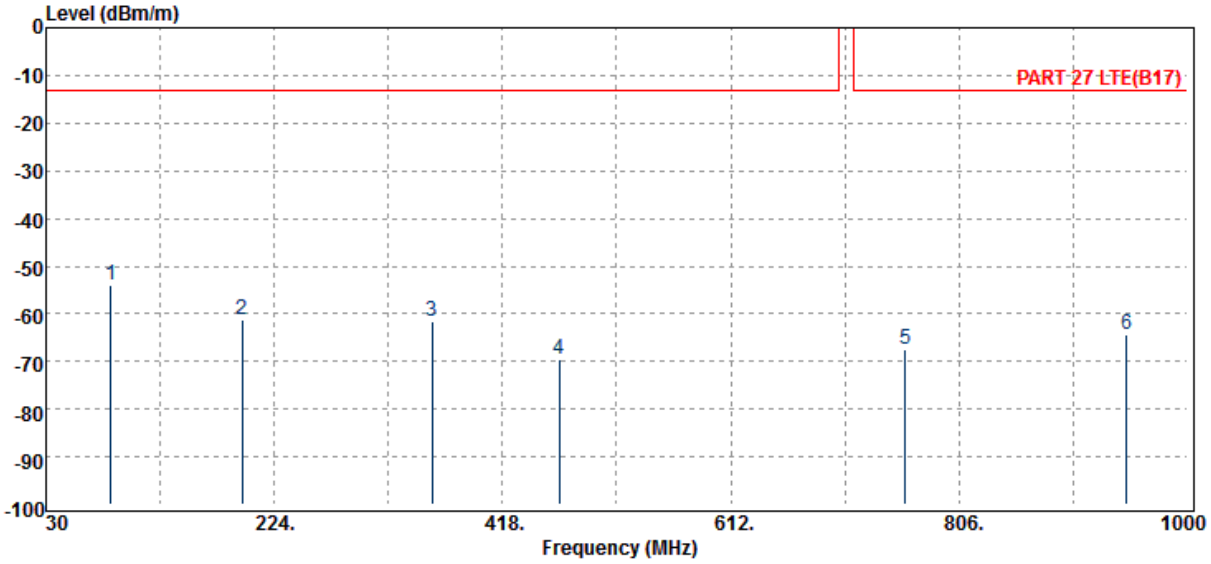
ARFCN	:CH 23755 16QAM BW 5 RB1 24	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-62.79	-47.90	-14.13	-0.76	-13.00	-49.79
183.26	S	-56.35	-56.39	1.54	-1.51	-13.00	-43.35
357.86	S	-62.76	-64.54	3.74	-1.96	-13.00	-49.76
537.31	S	-72.91	-74.03	3.63	-2.51	-13.00	-59.91
736.16	S	-70.06	-70.71	3.31	-2.66	-13.00	-57.06
938.89	S	-68.16	-68.21	3.24	-3.19	-13.00	-55.16

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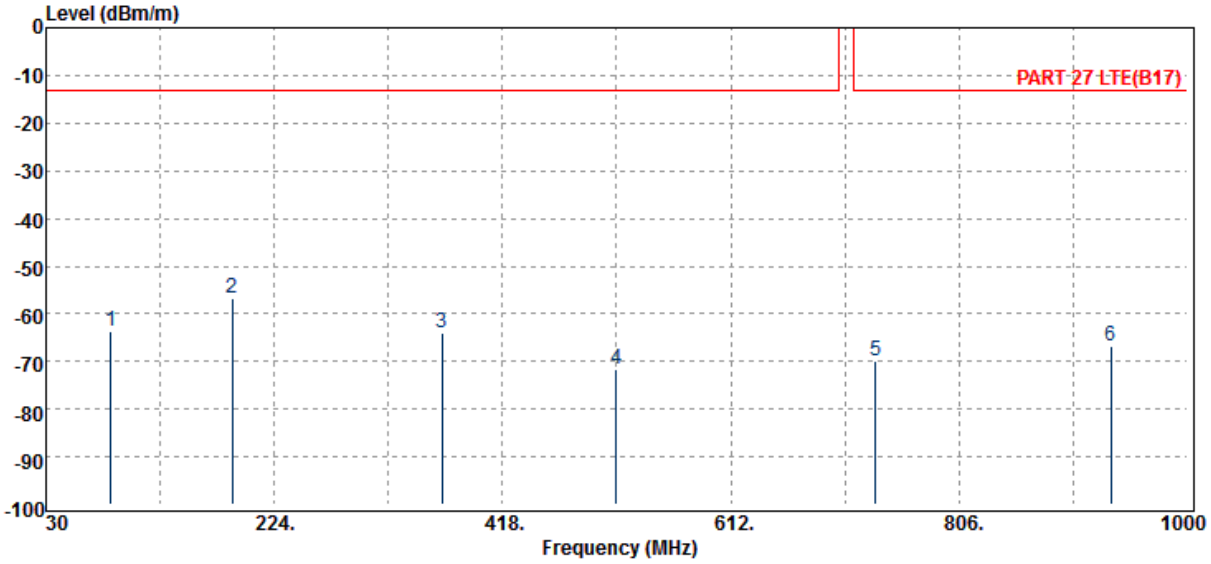
ARFCN	:CH 23790 16QAM BW 5 RB1 24	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
85.29	S	-53.84	-51.27	-1.50	-1.07	-13.00	-40.84
196.84	S	-61.08	-62.58	3.03	-1.53	-13.00	-48.08
357.86	S	-61.67	-63.45	3.74	-1.96	-13.00	-48.67
466.50	S	-69.67	-71.04	3.49	-2.11	-13.00	-56.67
760.41	S	-67.57	-68.17	3.32	-2.72	-13.00	-54.57
948.59	S	-64.36	-64.39	3.24	-3.20	-13.00	-51.36

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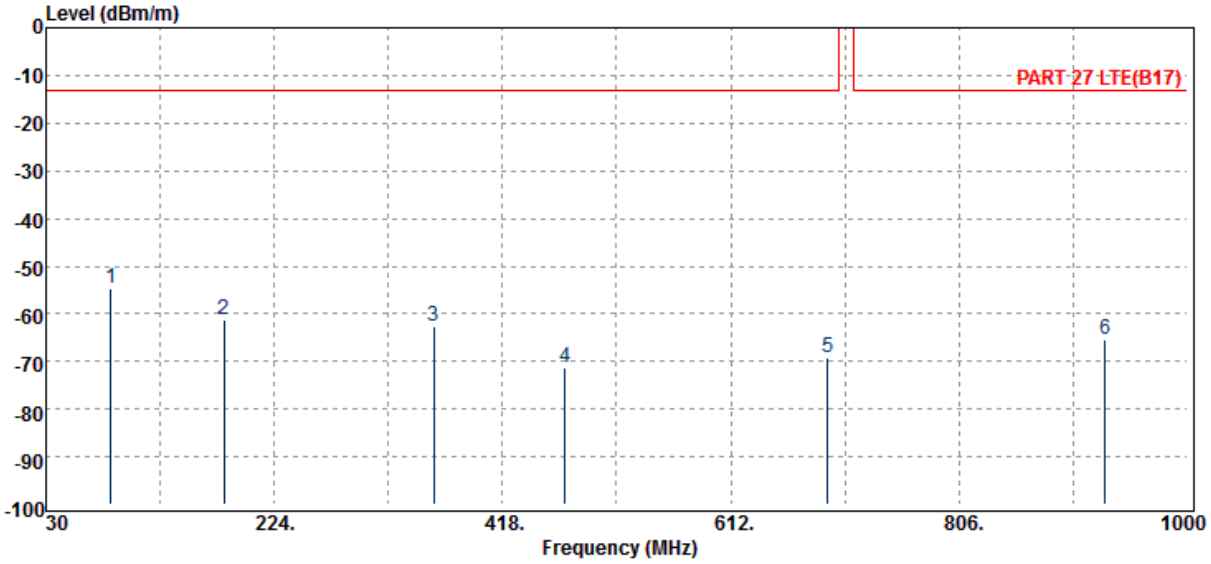
ARFCN	:CH 23790 16QAM BW 5 RB1 24	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
85.29	S	-63.55	-60.99	-1.50	-1.07	-13.00	-50.55
188.11	S	-56.72	-57.56	2.35	-1.51	-13.00	-43.72
366.59	S	-64.13	-65.88	3.71	-1.96	-13.00	-51.13
515.00	S	-71.58	-72.90	3.71	-2.39	-13.00	-58.58
735.19	S	-69.97	-70.62	3.31	-2.66	-13.00	-56.97
935.01	S	-66.95	-67.01	3.24	-3.18	-13.00	-53.95

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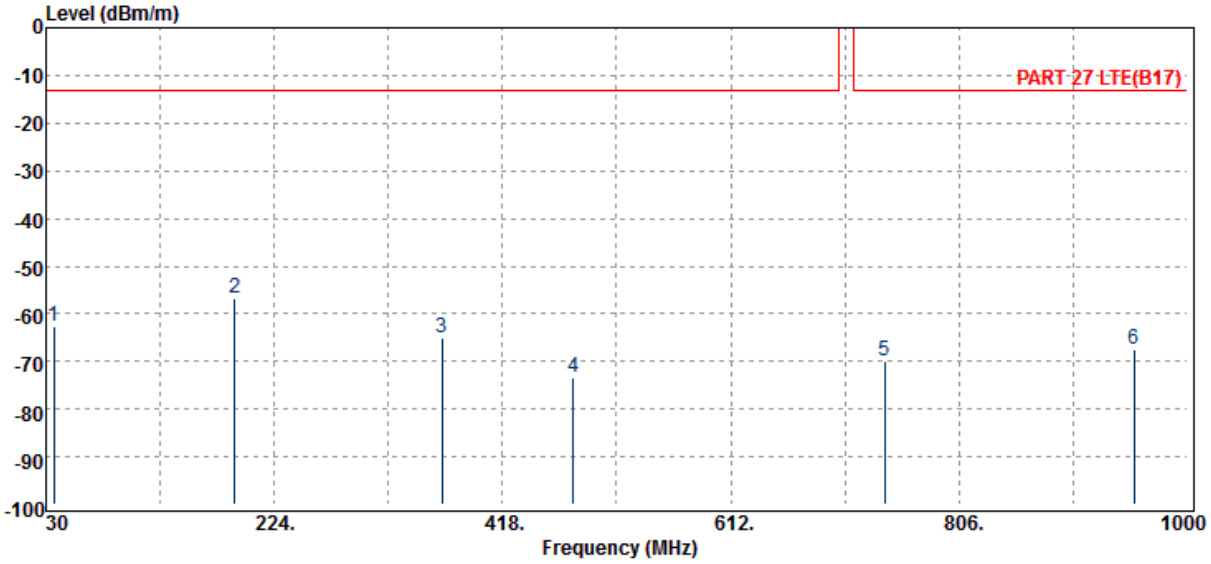
ARFCN	:CH 23825 16QAM BW 5 RB1 24	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
85.29	S	-54.58	-52.01	-1.50	-1.07	-13.00	-41.58
181.32	S	-61.36	-61.07	1.21	-1.50	-13.00	-48.36
359.80	S	-62.70	-64.47	3.73	-1.96	-13.00	-49.70
471.35	S	-71.29	-72.69	3.53	-2.13	-13.00	-58.29
694.45	S	-69.09	-69.89	3.41	-2.61	-13.00	-56.09
930.16	S	-65.46	-65.53	3.25	-3.17	-13.00	-52.46

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ARFCN	:CH 23825 16QAM BW 5 RB1 24	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

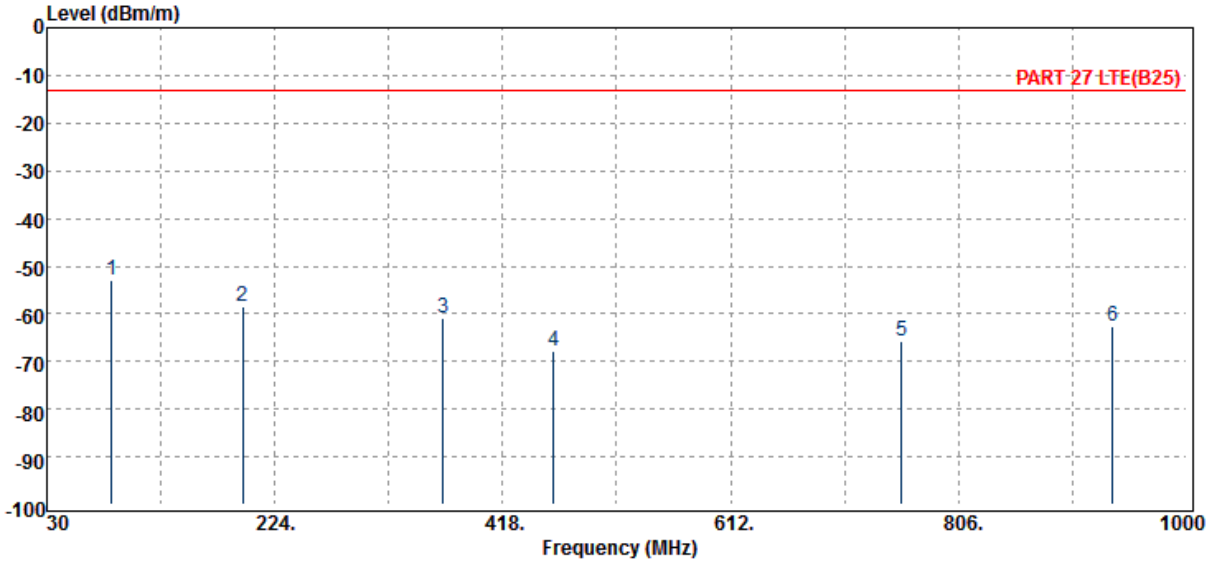


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-62.53	-48.41	-13.32	-0.80	-13.00	-49.53
190.05	S	-56.58	-57.72	2.66	-1.52	-13.00	-43.58
366.59	S	-64.99	-66.74	3.71	-1.96	-13.00	-51.99
478.14	S	-73.24	-74.65	3.58	-2.17	-13.00	-60.24
742.95	S	-69.82	-70.44	3.30	-2.68	-13.00	-56.82
954.41	S	-67.46	-67.20	2.94	-3.21	-13.00	-54.46

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 25 (The Worst Case)

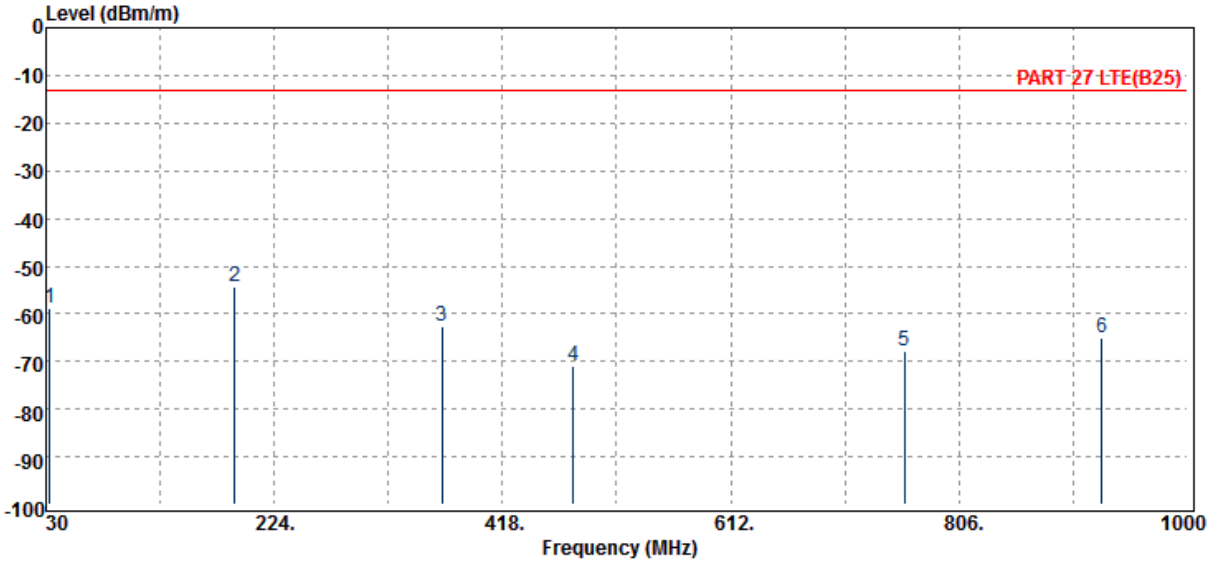
ARFCN	:CH 26065 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
85.29	S	-52.77	-52.35	0.65	-1.07	-13.00	-39.77
196.84	S	-58.55	-62.20	5.18	-1.53	-13.00	-45.55
367.56	S	-60.97	-64.87	5.86	-1.96	-13.00	-47.97
461.65	S	-67.77	-71.27	5.59	-2.10	-13.00	-54.77
757.50	S	-65.87	-68.61	5.46	-2.71	-13.00	-52.87
936.95	S	-62.57	-64.78	5.39	-3.18	-13.00	-49.57

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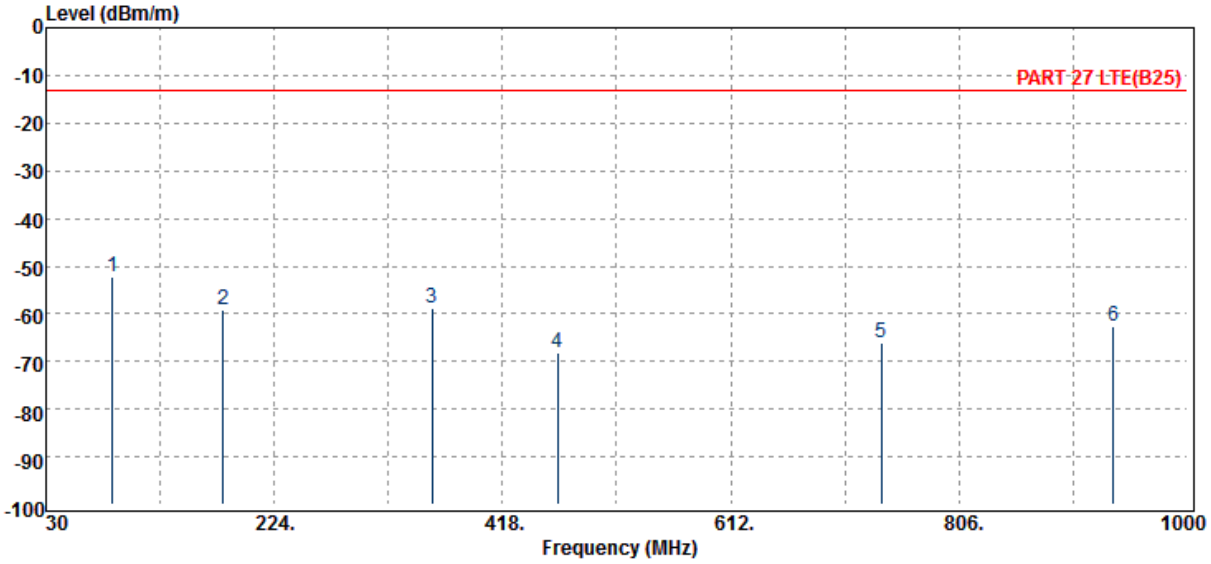
ARFCN	:CH 26065 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-58.95	-46.21	-11.98	-0.76	-13.00	-45.95
190.05	S	-54.41	-57.70	4.81	-1.52	-13.00	-41.41
366.59	S	-62.54	-66.44	5.86	-1.96	-13.00	-49.54
478.14	S	-70.88	-74.44	5.73	-2.17	-13.00	-57.88
759.44	S	-67.68	-70.43	5.46	-2.72	-13.00	-54.68
927.25	S	-65.09	-67.32	5.40	-3.17	-13.00	-52.09

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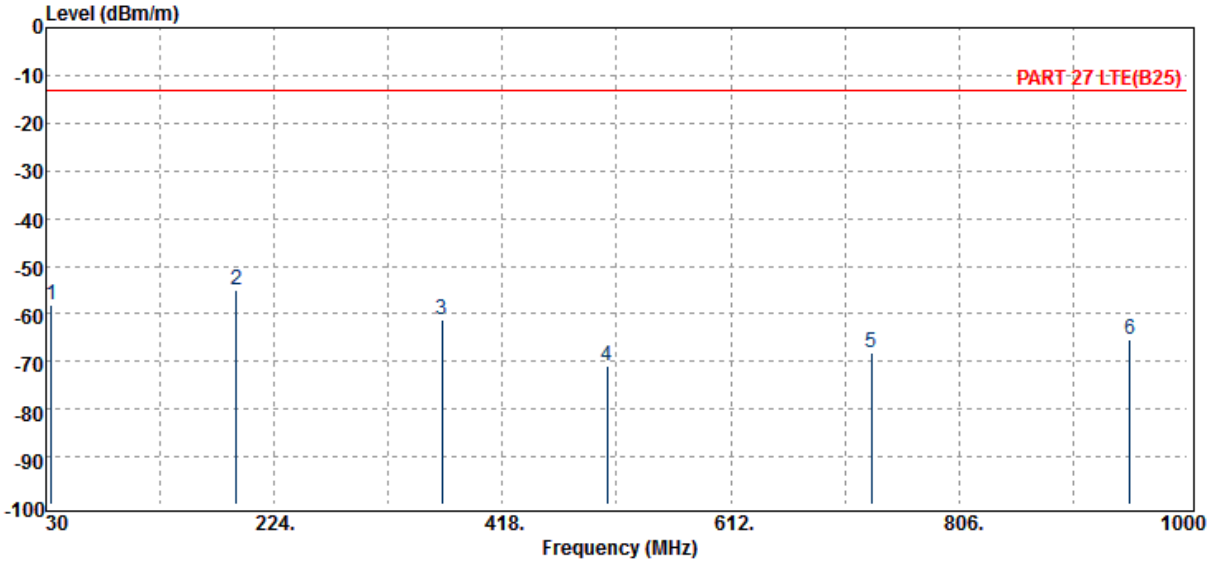
ARFCN	:CH 26365 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
86.26	S	-52.22	-52.03	0.88	-1.08	-13.00	-39.22
180.35	S	-59.08	-60.78	3.20	-1.50	-13.00	-46.08
357.86	S	-58.70	-62.63	5.89	-1.96	-13.00	-45.70
464.56	S	-68.21	-71.72	5.62	-2.11	-13.00	-55.21
740.04	S	-66.06	-68.84	5.45	-2.67	-13.00	-53.06
936.95	S	-62.52	-64.73	5.39	-3.18	-13.00	-49.52

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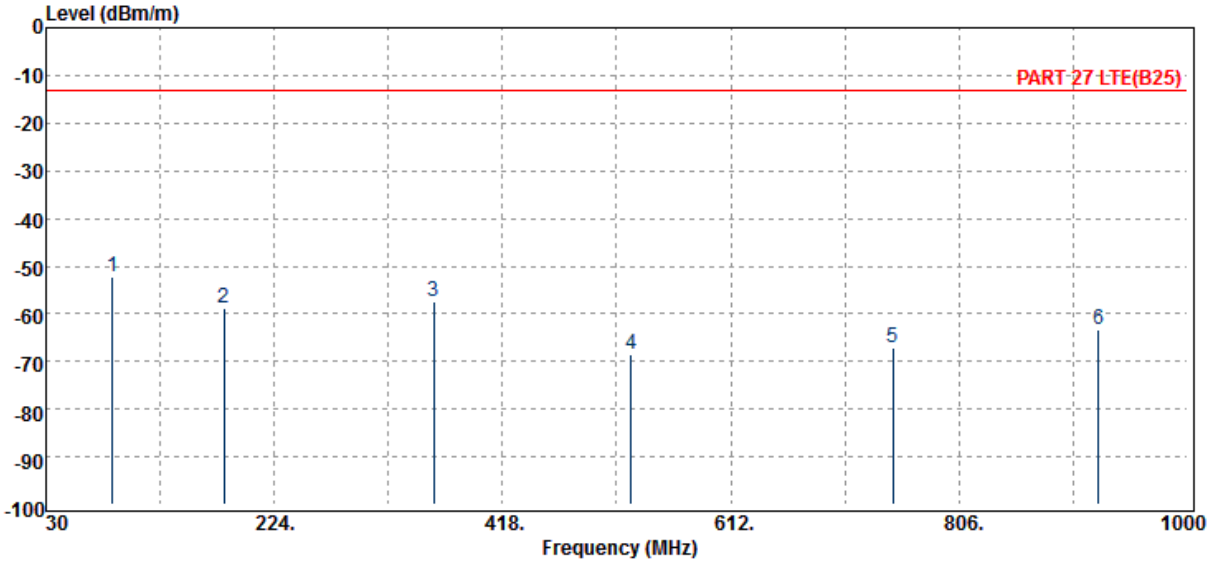
ARFCN	:CH 26365 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-58.30	-46.00	-11.52	-0.78	-13.00	-45.30
191.99	S	-55.15	-58.54	4.92	-1.52	-13.00	-42.15
366.59	S	-61.31	-65.21	5.86	-1.96	-13.00	-48.31
507.24	S	-71.05	-74.59	5.88	-2.34	-13.00	-58.05
731.31	S	-68.31	-71.13	5.47	-2.65	-13.00	-55.31
951.50	S	-65.24	-67.32	5.28	-3.20	-13.00	-52.24

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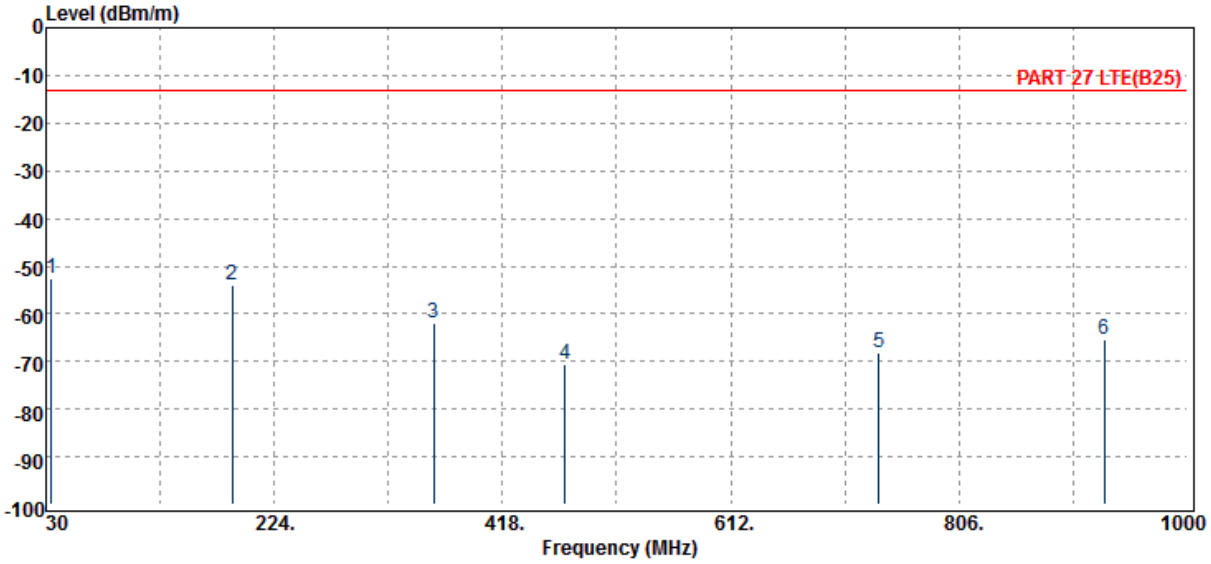
ARFCN	:CH 26665 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1912.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
86.26	S	-52.13	-51.93	0.88	-1.08	-13.00	-39.13
181.32	S	-58.92	-60.78	3.36	-1.50	-13.00	-45.92
359.80	S	-57.37	-61.29	5.88	-1.96	-13.00	-44.37
527.61	S	-68.60	-71.95	5.81	-2.46	-13.00	-55.60
749.74	S	-67.00	-69.73	5.43	-2.70	-13.00	-54.00
924.34	S	-63.45	-65.68	5.40	-3.17	-13.00	-50.45

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ARFCN	:CH 26665 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1912.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
34.85	S	-52.54	-40.23	-11.52	-0.78	-13.00	-39.54
188.11	S	-53.87	-56.85	4.50	-1.51	-13.00	-40.87
359.80	S	-61.78	-65.70	5.88	-1.96	-13.00	-48.78
471.35	S	-70.53	-74.08	5.68	-2.13	-13.00	-57.53
738.10	S	-68.19	-70.98	5.45	-2.67	-13.00	-55.19
929.19	S	-65.55	-67.77	5.40	-3.17	-13.00	-52.55

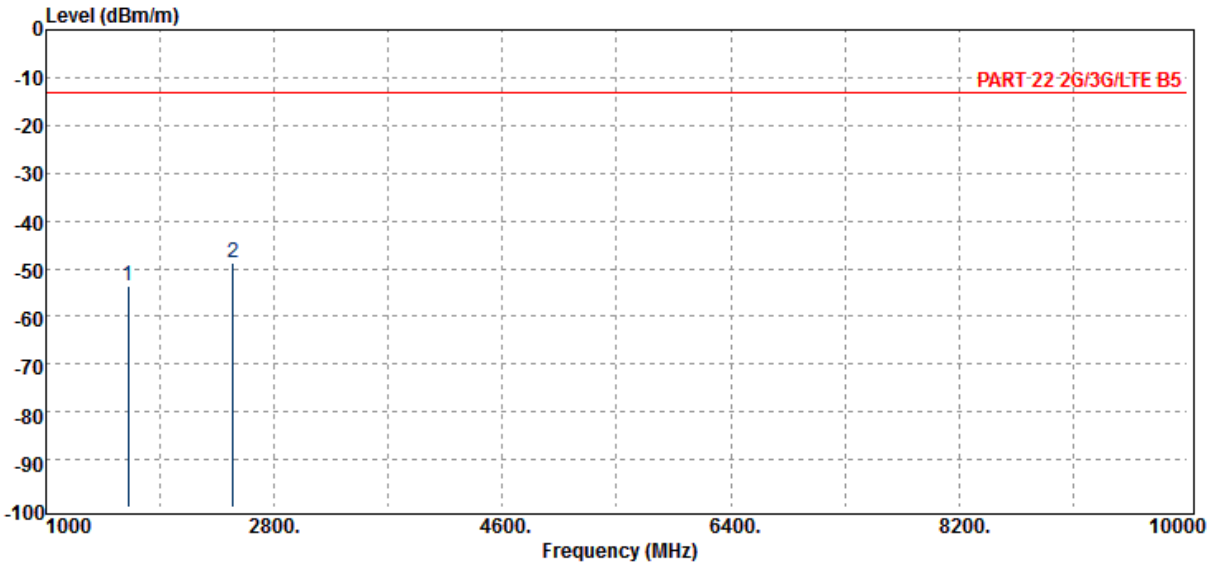
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8.6. Measurement Result (Above 1GHz):

***Antenna Part No.: GSA.8841.A.105111**

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

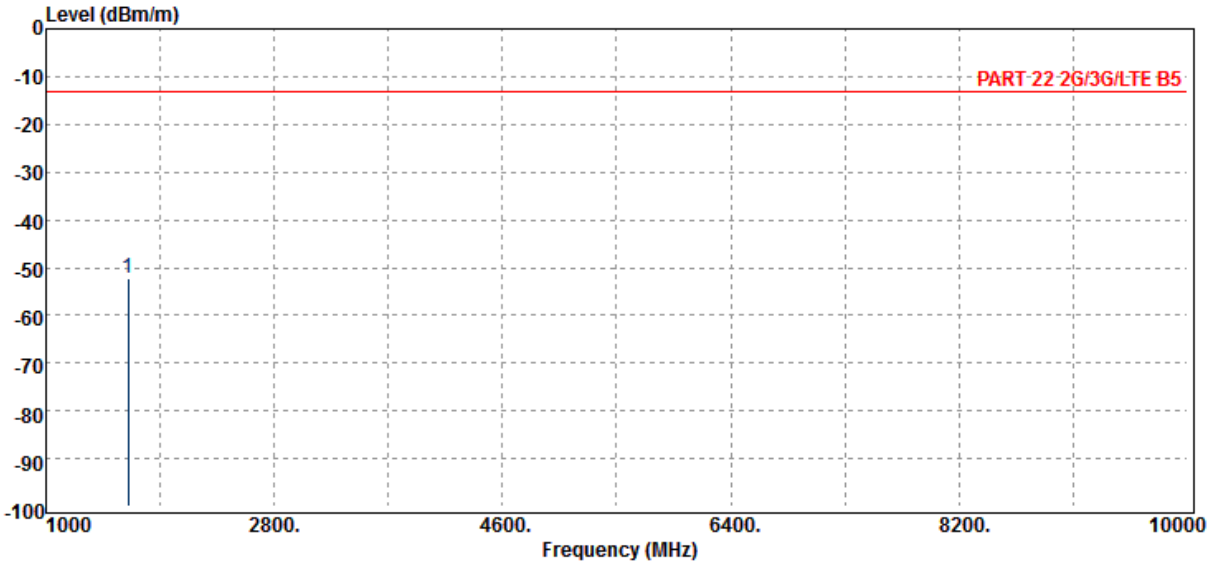
ARFCN	:CH 128	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1648.40	H	-53.53	-52.37	3.05	-4.21	-13.00	-40.53
2472.60	H	-48.64	-46.91	3.59	-5.32	-13.00	-35.64

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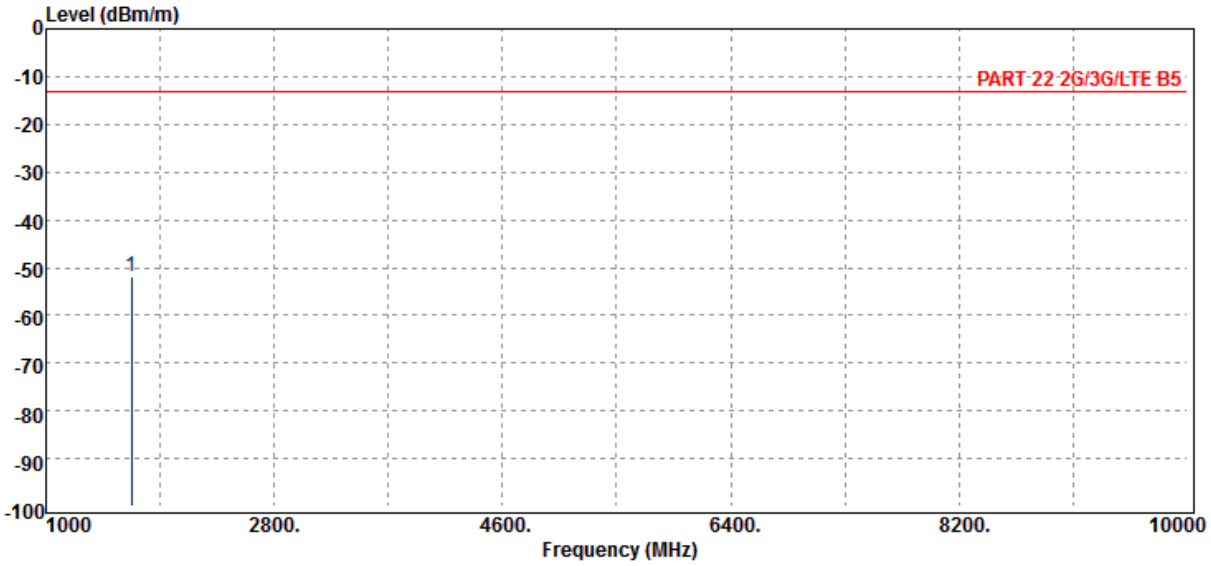
ARFCN	:CH 128	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1648.40	H	-52.33	-51.17	3.05	-4.21	-13.00	-39.33

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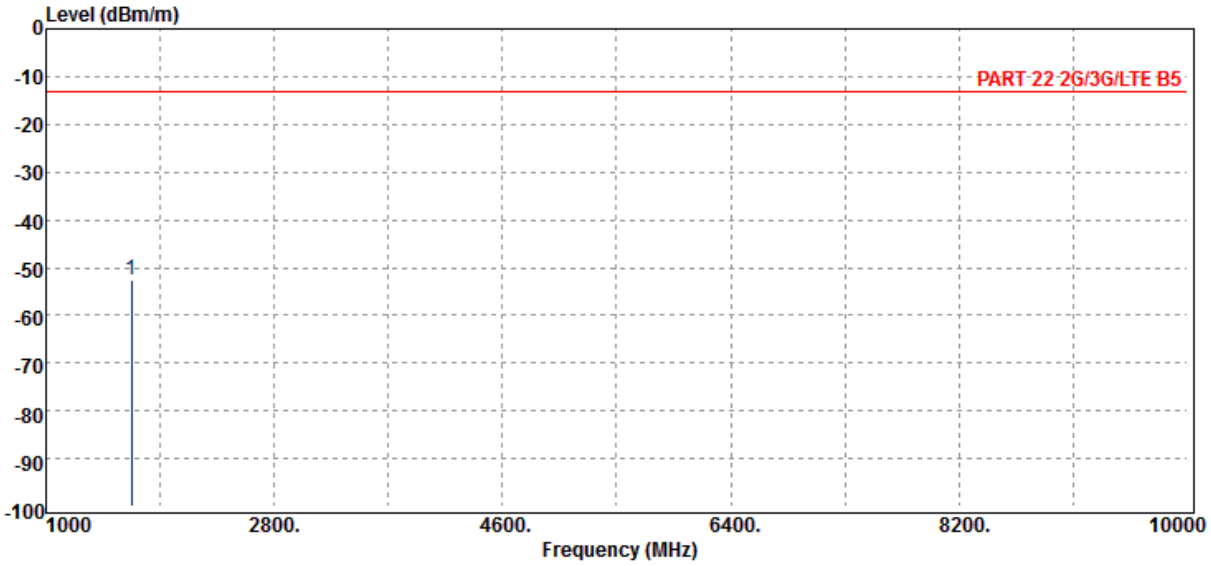
ARFCN	:CH 190	Test Date	:2015-08-28
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-51.95	-50.70	3.01	-4.26	-13.00	-38.95

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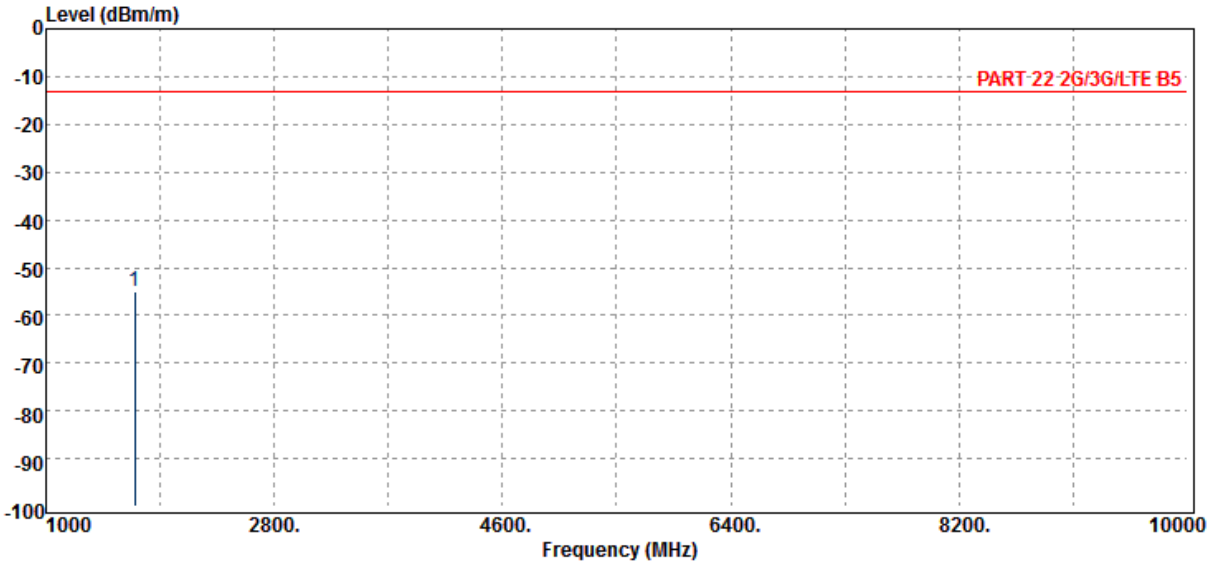
ARFCN	:CH 190	Test Date	:2015-08-28
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-52.50	-51.25	3.01	-4.26	-13.00	-39.50

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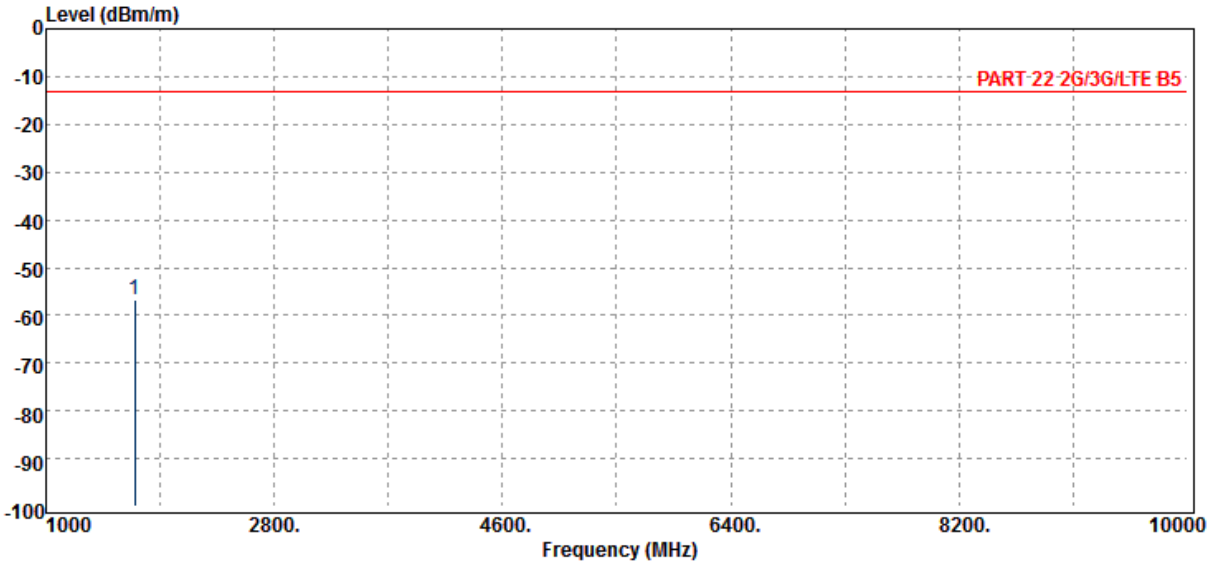
ARFCN	:CH 251	Test Date	:2015-08-28
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1697.60	H	-54.97	-53.66	2.96	-4.28	-13.00	-41.97

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ARFCN	:CH 251	Test Date	:2015-08-28
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

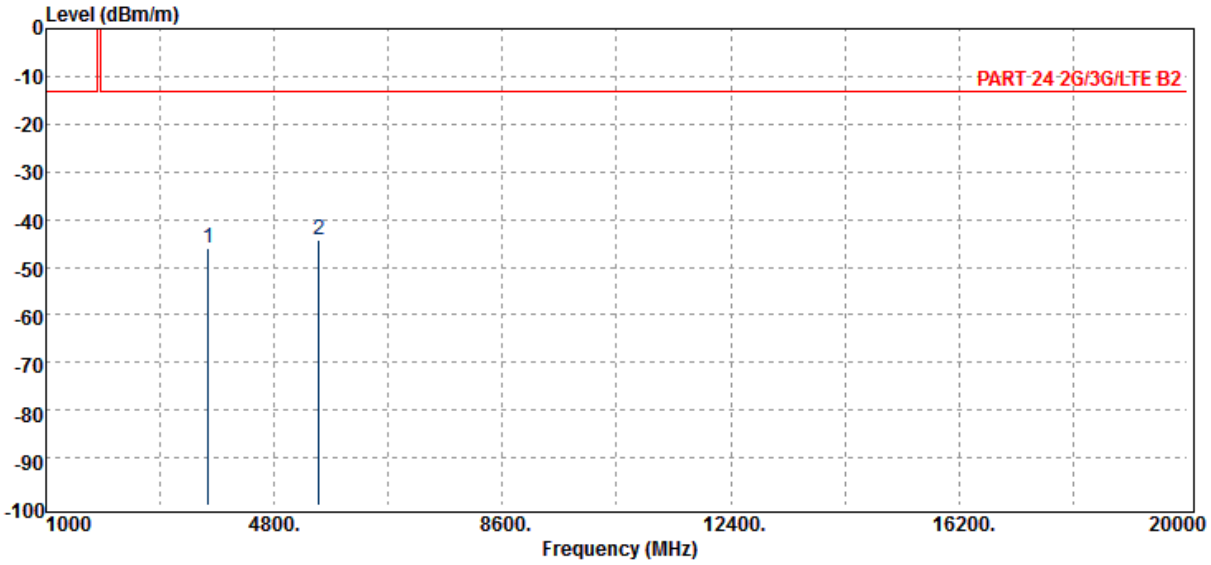


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1697.60	H	-56.90	-55.59	2.96	-4.28	-13.00	-43.90

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

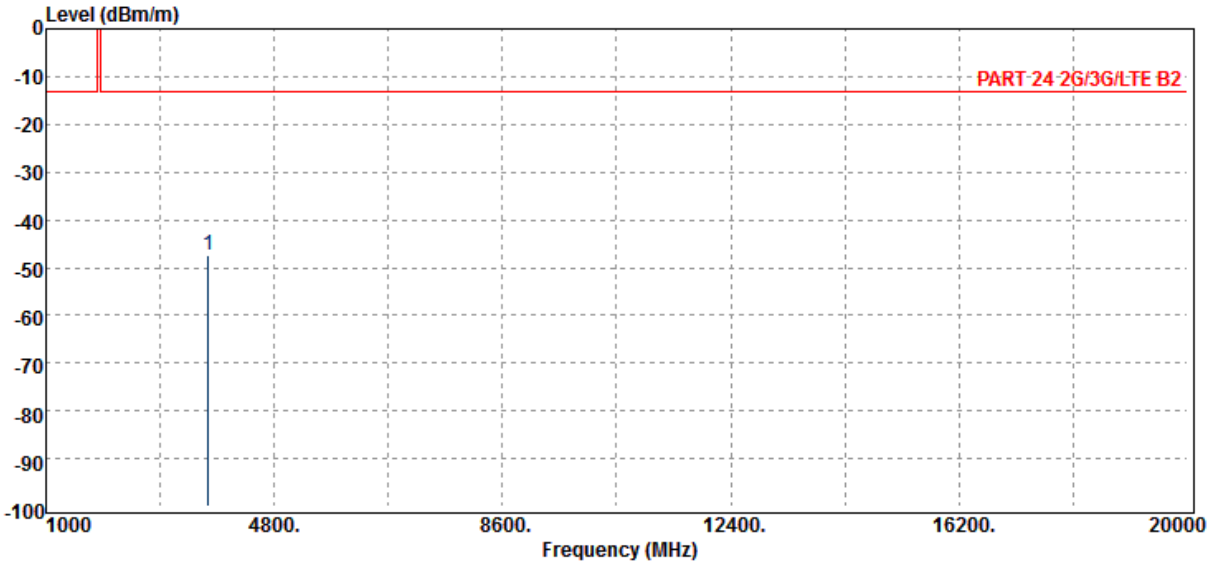
ARFCN	:CH 512	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3700.40	H	-46.08	-47.62	8.43	-6.88	-13.00	-33.08
5550.60	H	-44.20	-45.75	10.10	-8.55	-13.00	-31.20

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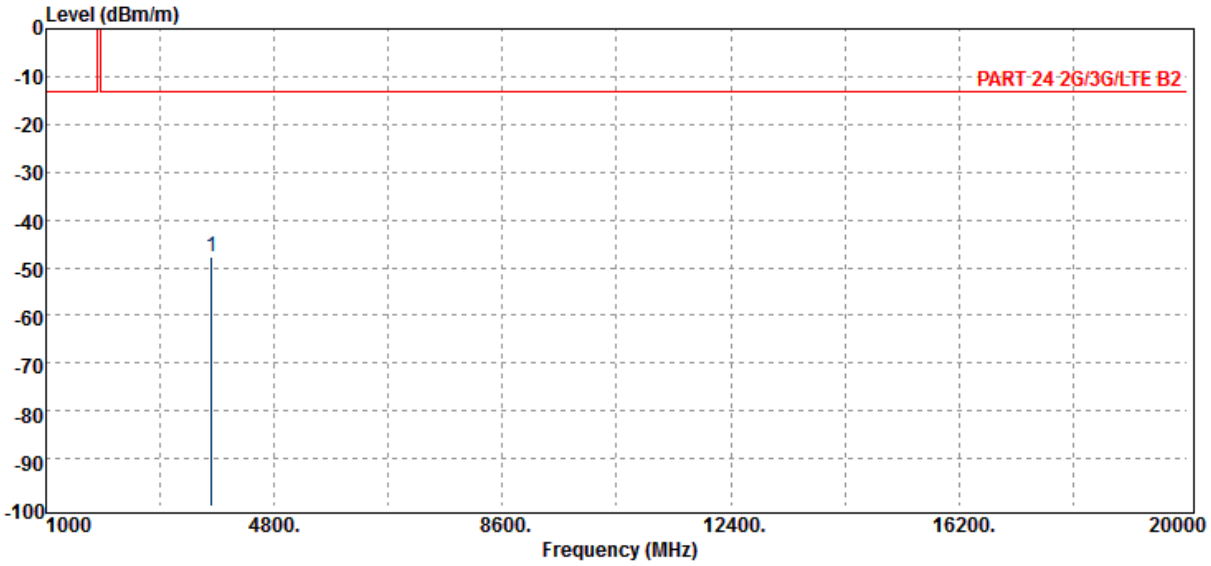
ARFCN	:CH 512	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3700.40	H	-47.56	-49.11	8.43	-6.88	-13.00	-34.56

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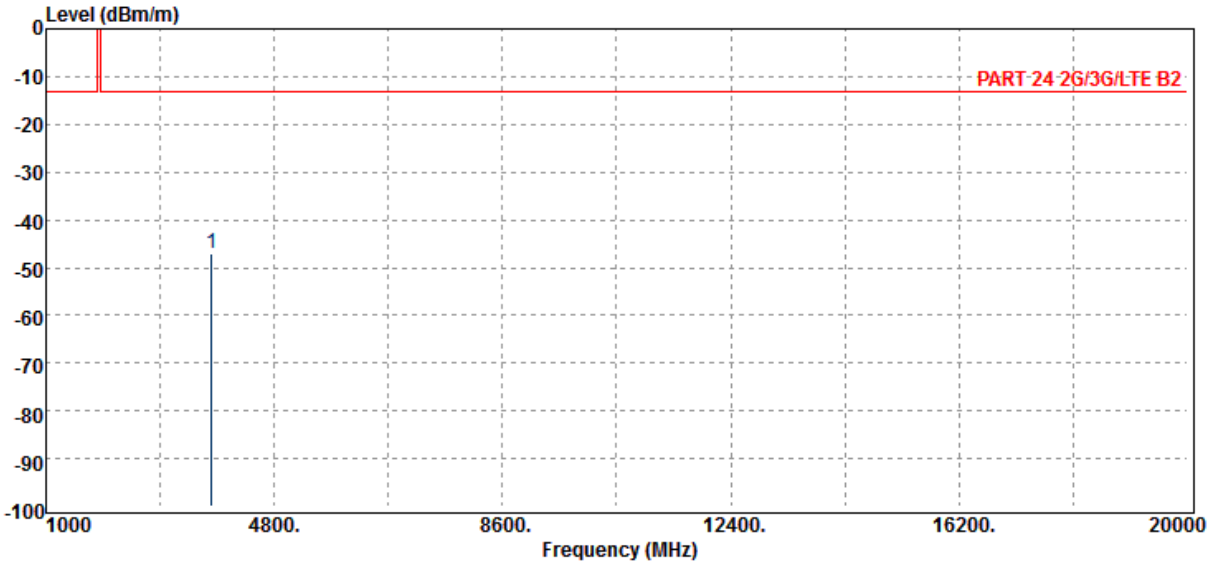
ARFCN	:CH 661	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-47.75	-49.19	8.46	-7.02	-13.00	-34.75

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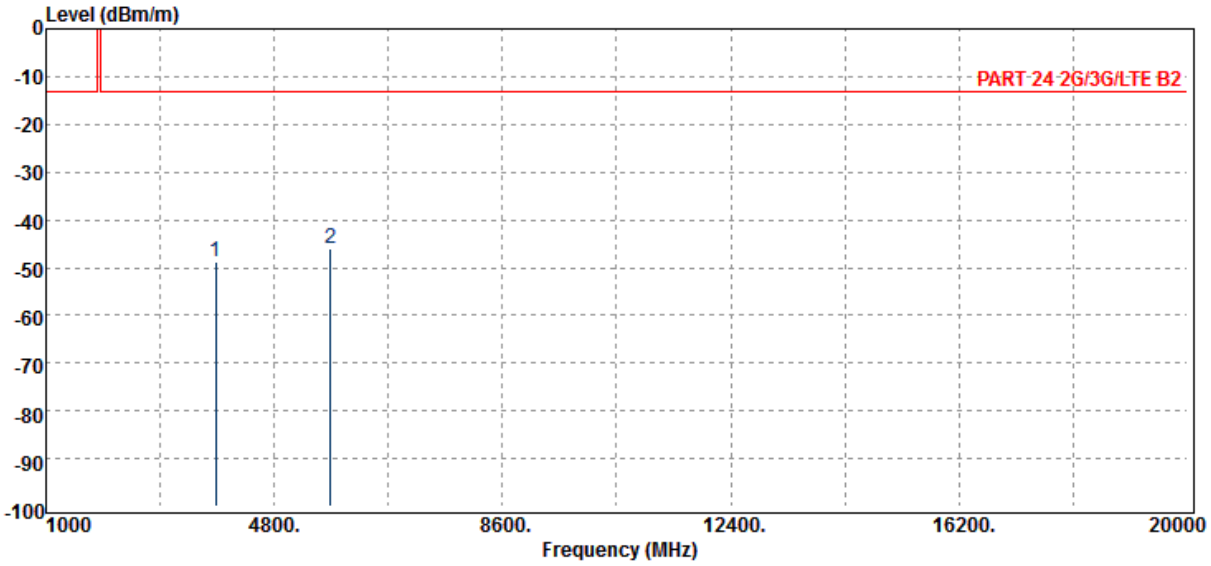
ARFCN	:CH 661	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-47.04	-48.49	8.46	-7.02	-13.00	-34.04

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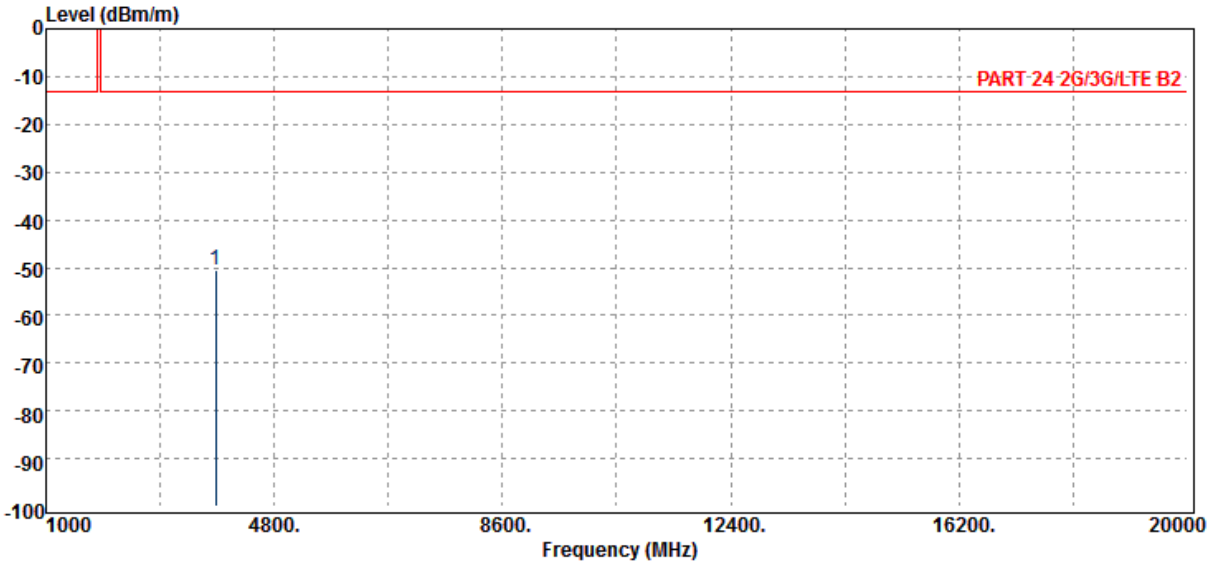
ARFCN	:CH 810	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3819.60	H	-48.90	-50.35	8.50	-7.05	-13.00	-35.90
5729.40	H	-45.89	-47.37	10.12	-8.64	-13.00	-32.89

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ARFCN	:CH 810	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

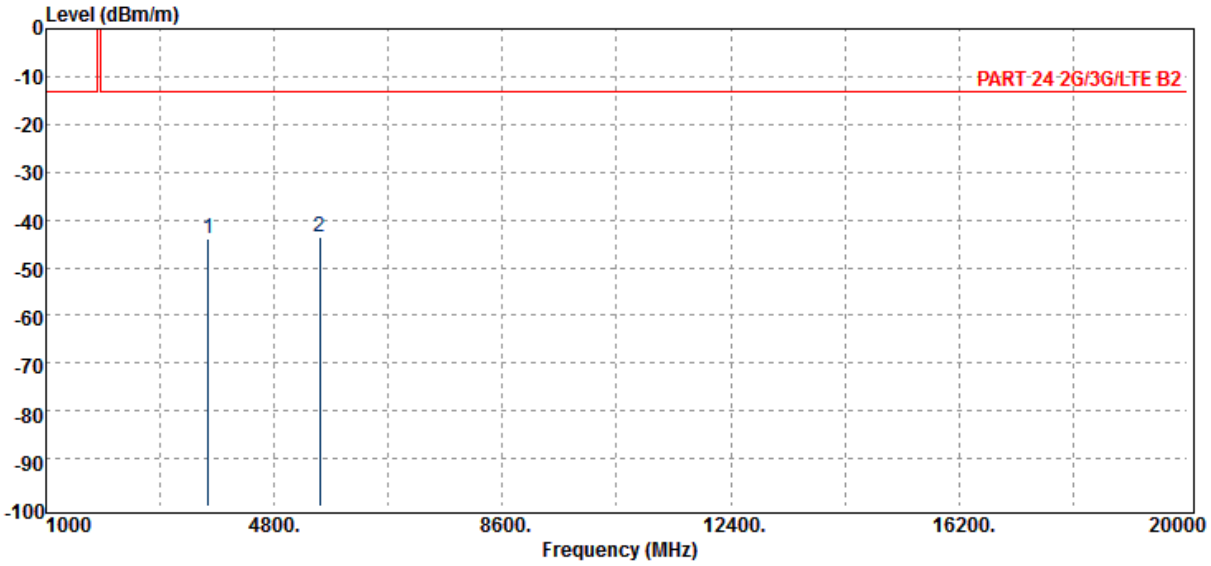


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3819.60	H	-50.41	-51.86	8.50	-7.05	-13.00	-37.41

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Radiated Spurious Emission Measurement Result: HSDPA II Mode

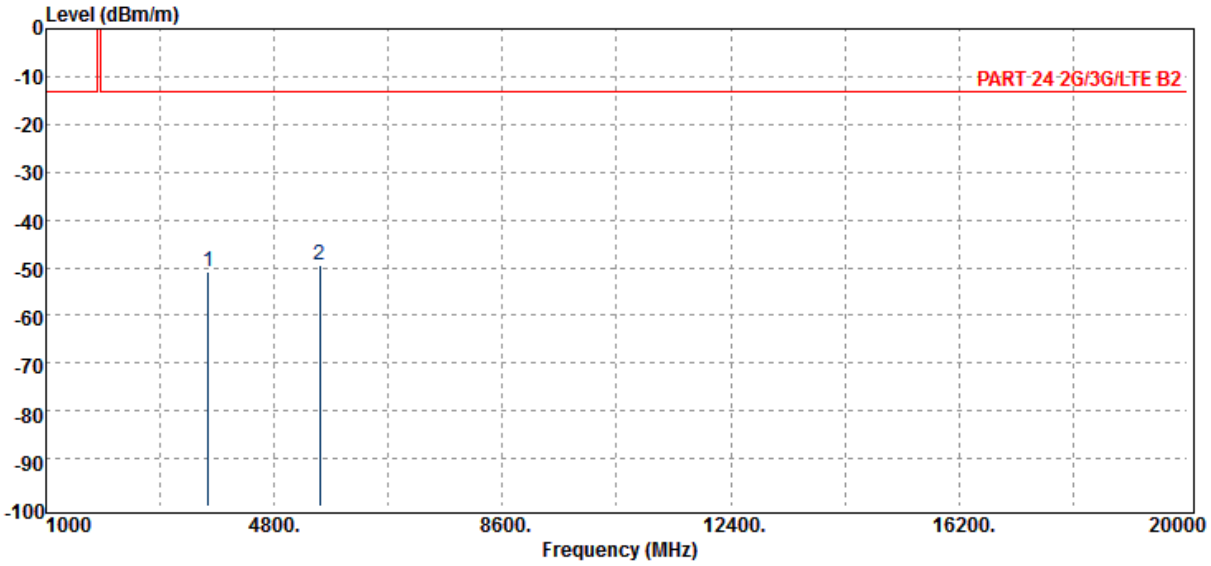
ARFCN	:CH 9262	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3704.80	H	-44.07	-45.61	8.43	-6.89	-13.00	-31.07
5557.20	H	-43.69	-45.25	10.10	-8.54	-13.00	-30.69

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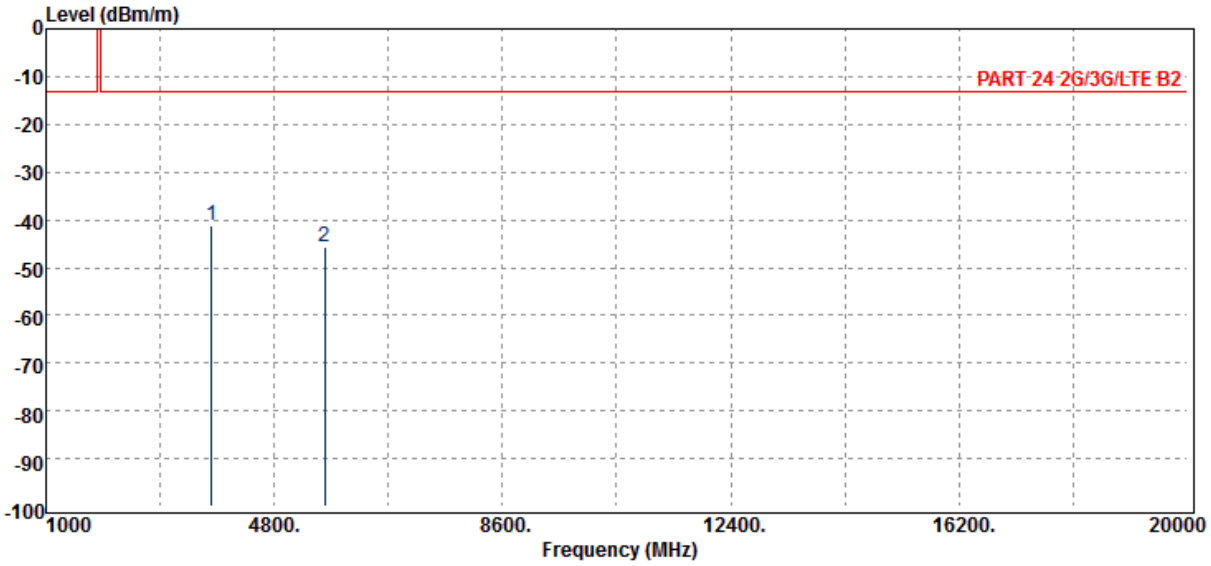
ARFCN	:CH 9262	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3704.80	H	-50.93	-52.47	8.43	-6.89	-13.00	-37.93
5557.20	H	-49.55	-51.11	10.10	-8.54	-13.00	-36.55

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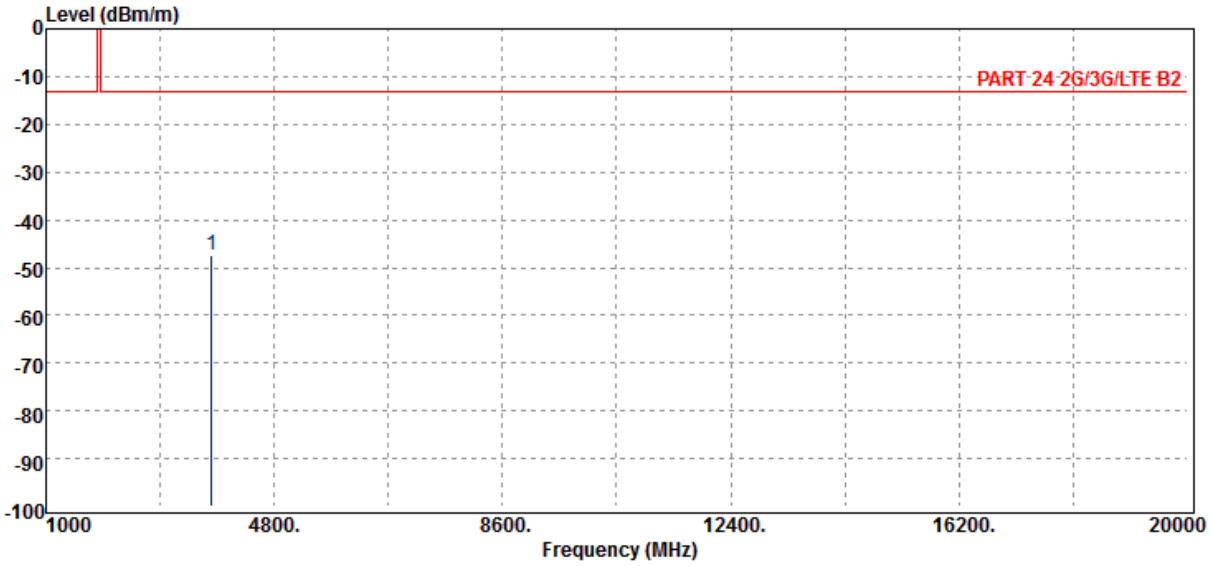
ARFCN	:CH 9400	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-41.31	-42.75	8.46	-7.02	-13.00	-28.31
5640.00	H	-45.51	-47.04	10.11	-8.59	-13.00	-32.51

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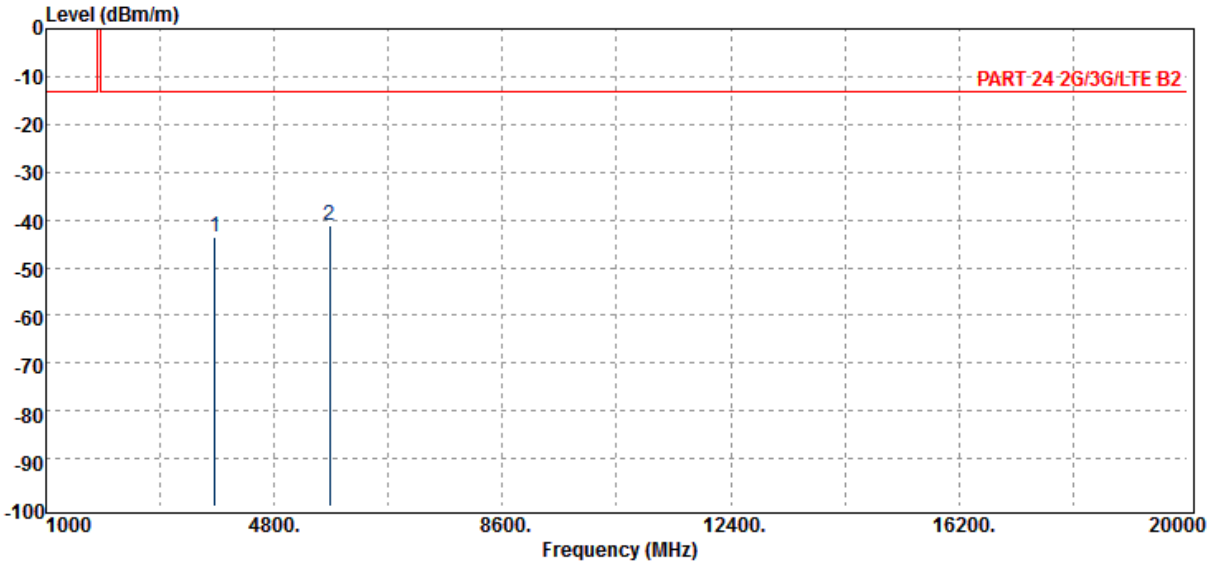
ARFCN	:CH 9400	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-47.27	-48.71	8.46	-7.02	-13.00	-34.27

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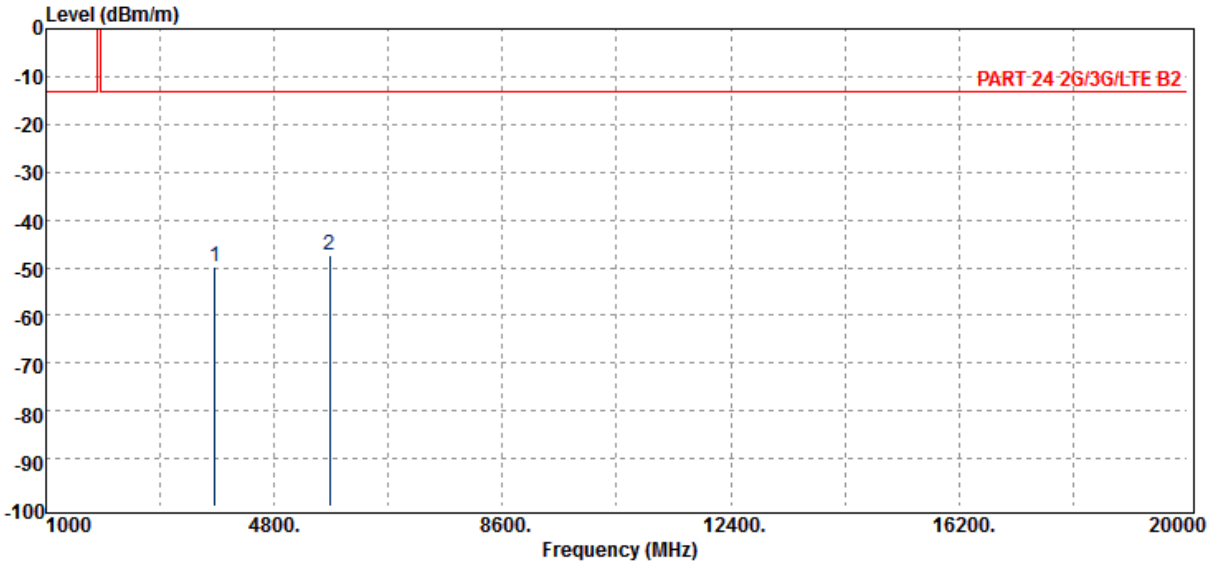
ARFCN	:CH 9538	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3815.20	H	-43.70	-45.14	8.49	-7.05	-13.00	-30.70
5722.80	H	-41.20	-42.69	10.12	-8.63	-13.00	-28.20

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ARFCN	:CH 9538	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

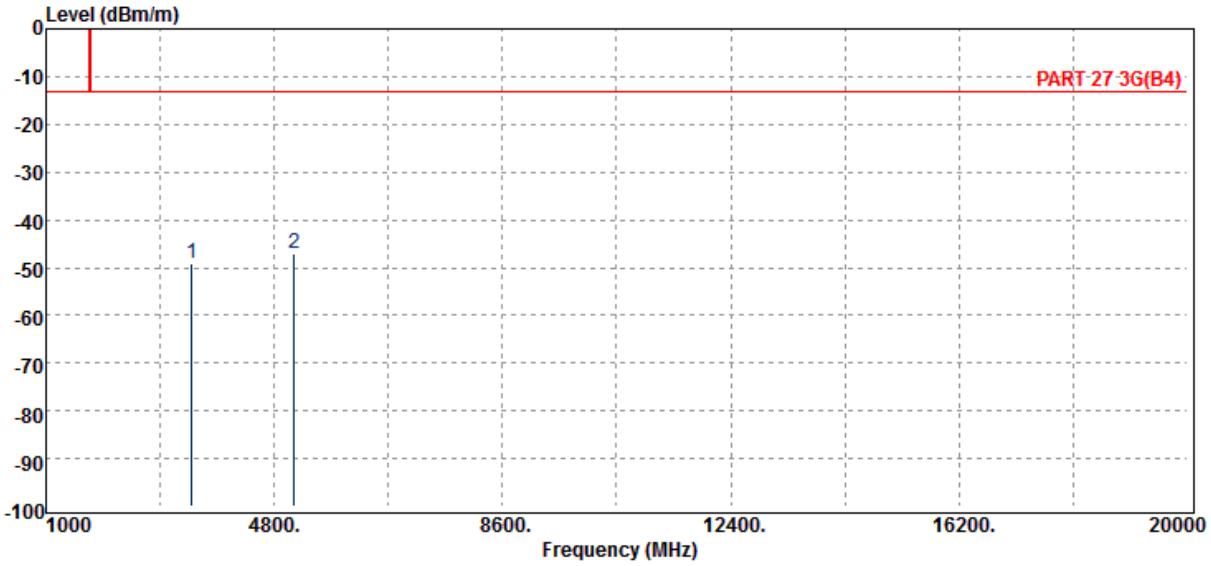


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3815.20	H	-49.88	-51.33	8.49	-7.05	-13.00	-36.88
5722.80	H	-47.43	-48.93	10.12	-8.63	-13.00	-34.43

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

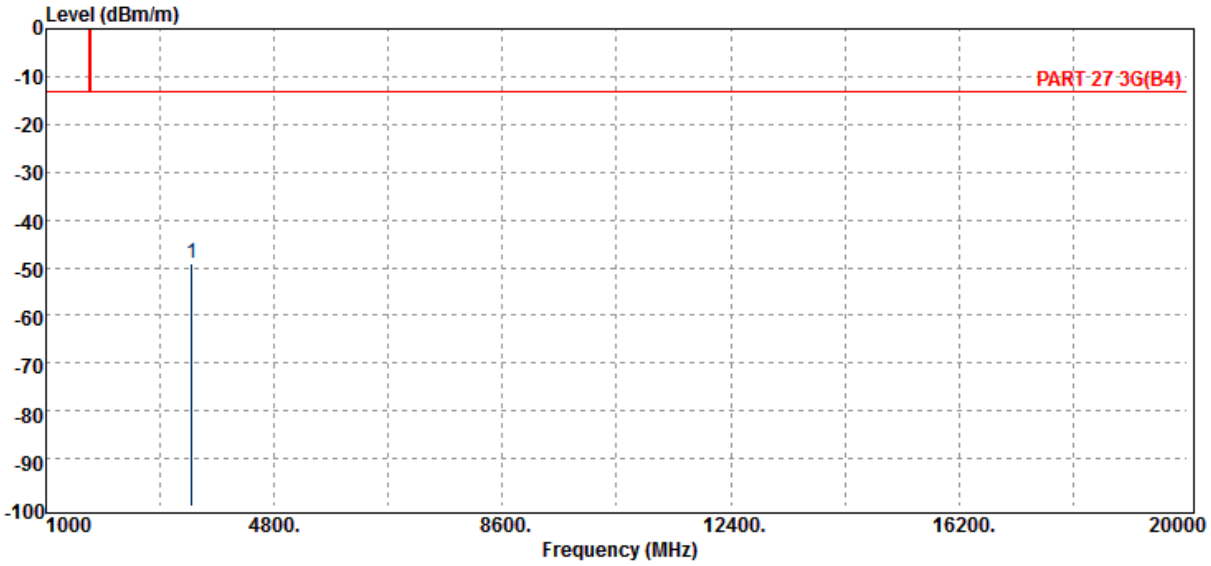
ARFCN	:CH 1312	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3424.80	H	-49.11	-50.66	8.09	-6.54	-13.00	-36.11
5137.20	H	-47.09	-48.50	9.89	-8.48	-13.00	-34.09

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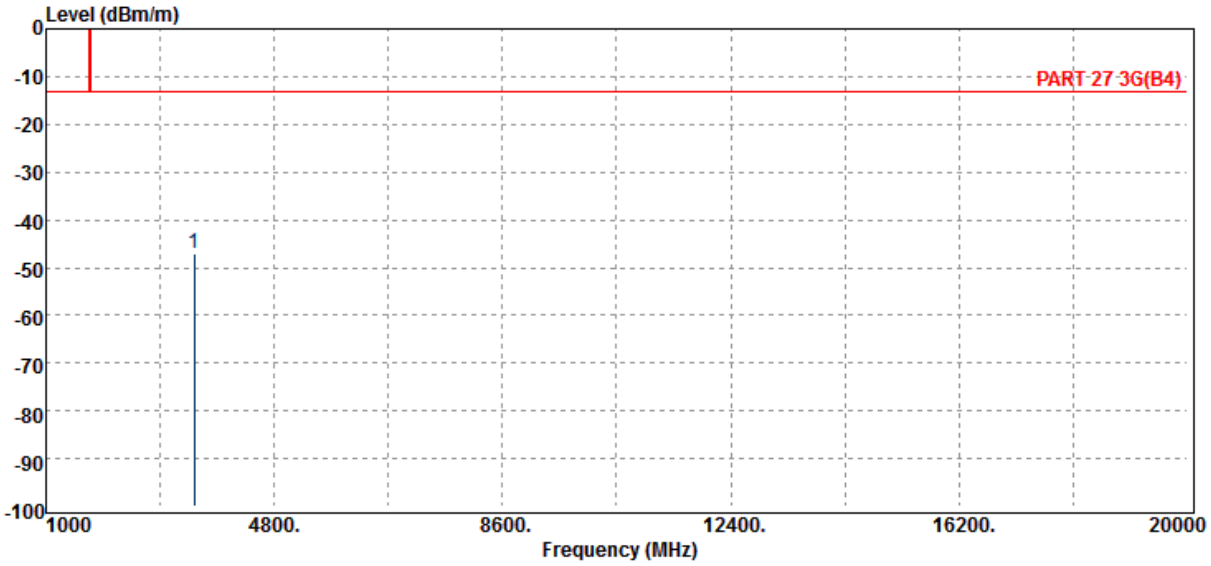
ARFCN	:CH 1312	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3424.80	H	-49.29	-50.83	8.09	-6.54	-13.00	-36.29

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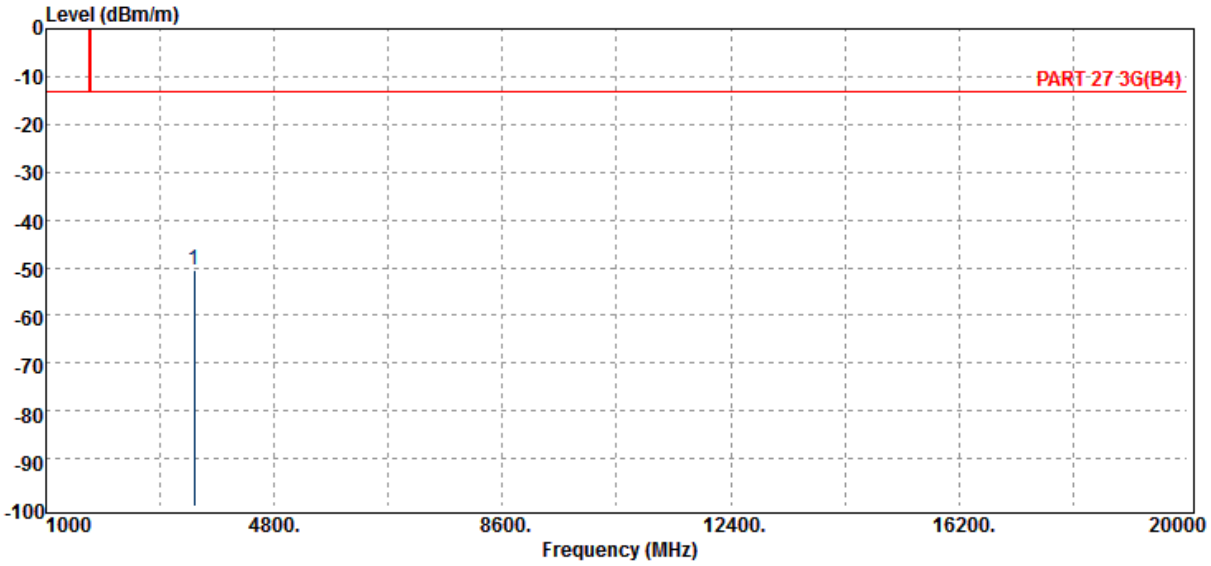
ARFCN	:CH 1413	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.20	H	-47.17	-48.84	8.20	-6.53	-13.00	-34.17

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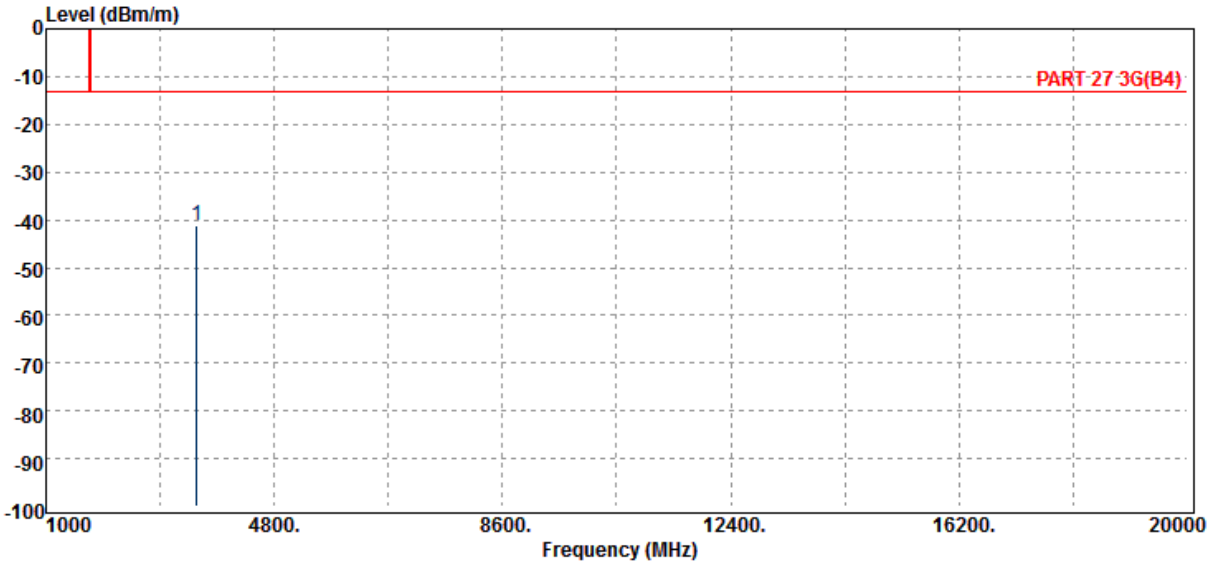
ARFCN	:CH 1413	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.20	H	-50.47	-52.14	8.20	-6.53	-13.00	-37.47

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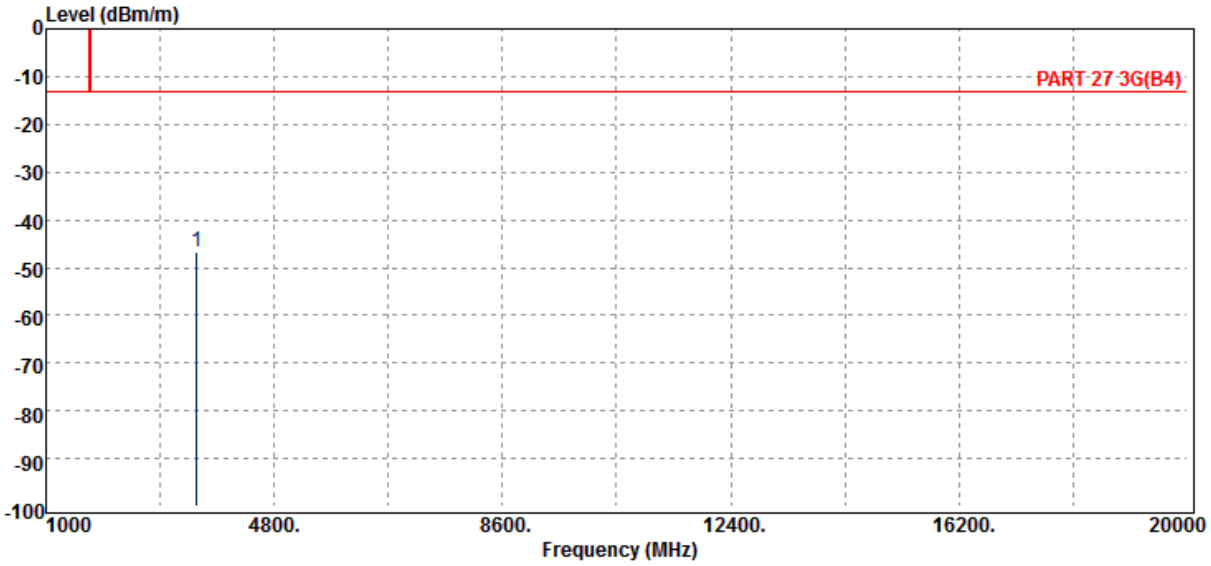
ARFCN	:CH 1513	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.20	H	-41.26	-42.88	8.30	-6.68	-13.00	-28.26

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ARFCN	:CH 1513	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

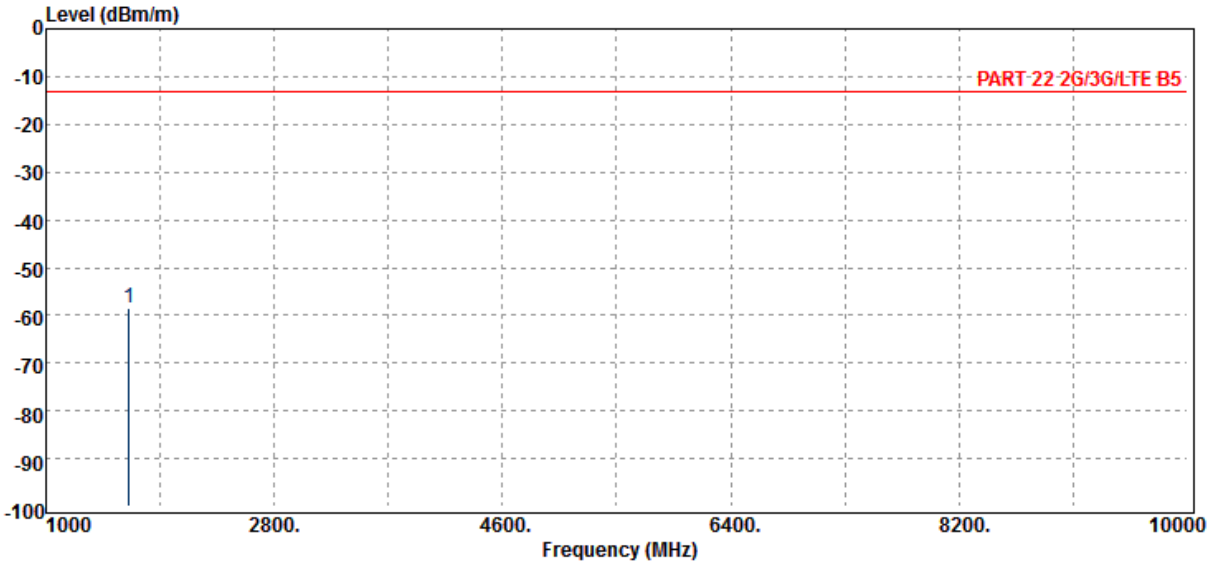


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.20	H	-46.59	-48.21	8.30	-6.68	-13.00	-33.59

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Radiated Spurious Emission Measurement Result: HSDPA V Mode

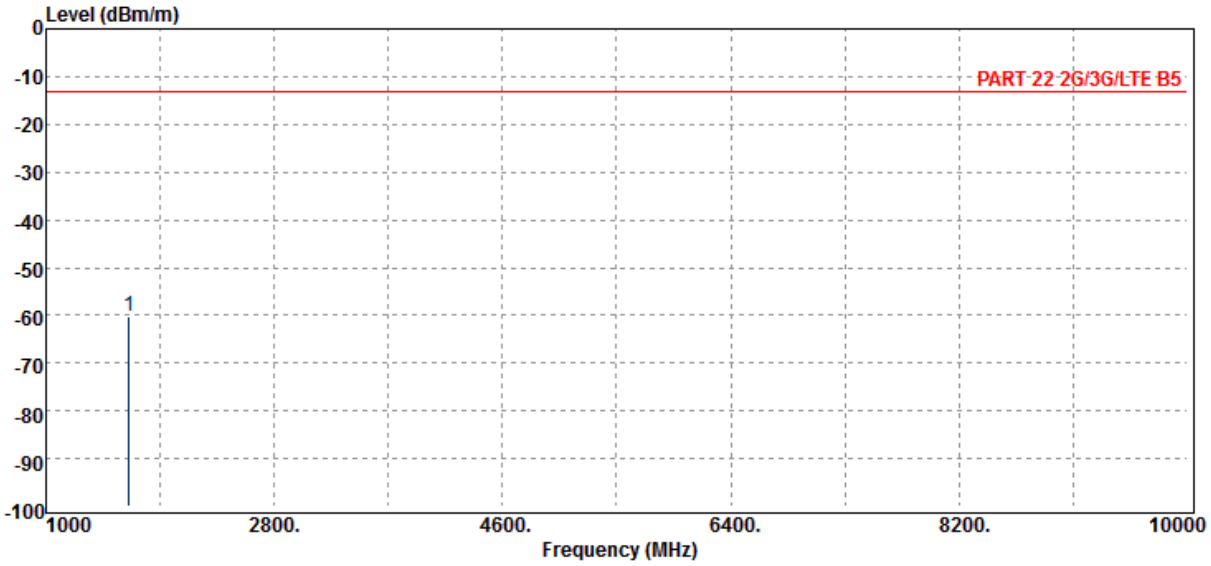
ARFCN	:CH 4132	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1652.80	H	-58.40	-57.23	3.05	-4.22	-13.00	-45.40

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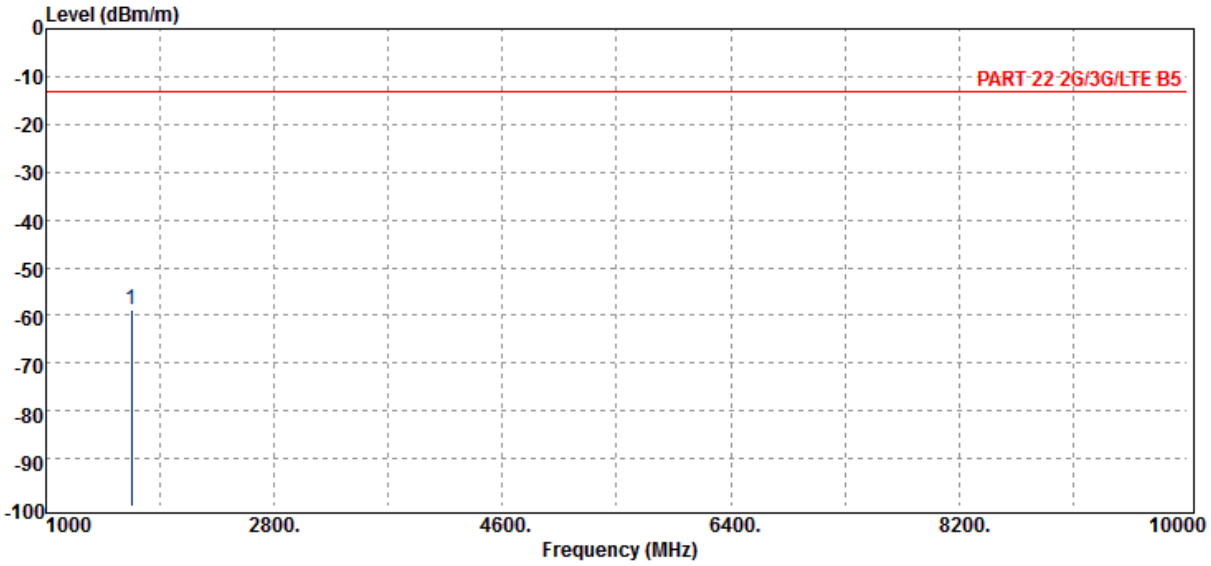
ARFCN	:CH 4132	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1652.80	H	-60.29	-59.12	3.05	-4.22	-13.00	-47.29

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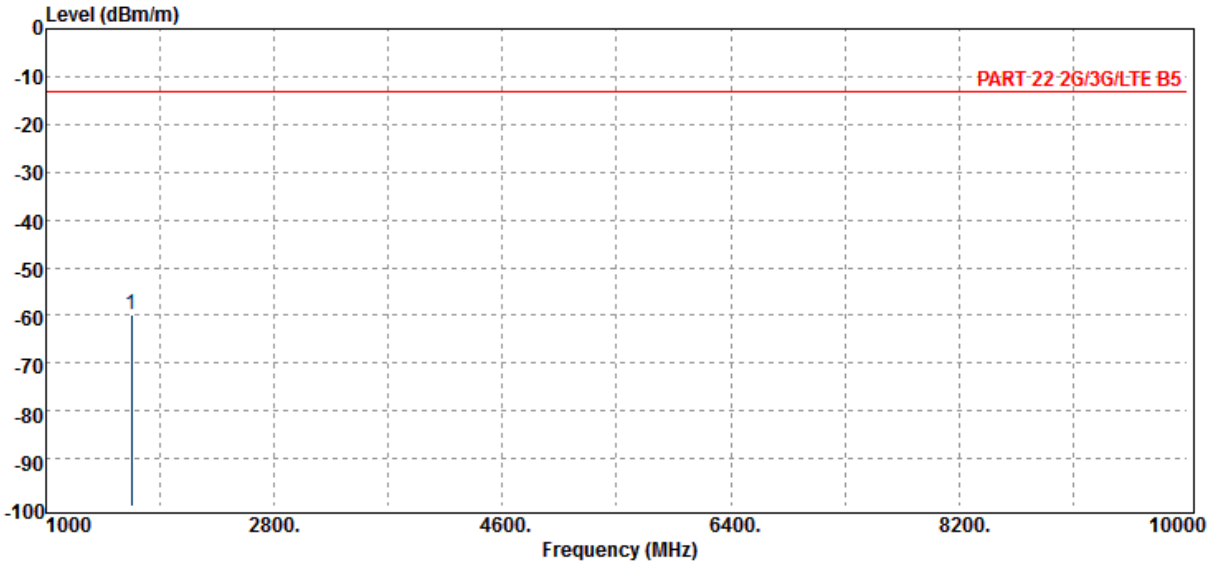
ARFCN	:CH 4183	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-58.97	-57.72	3.01	-4.26	-13.00	-45.97

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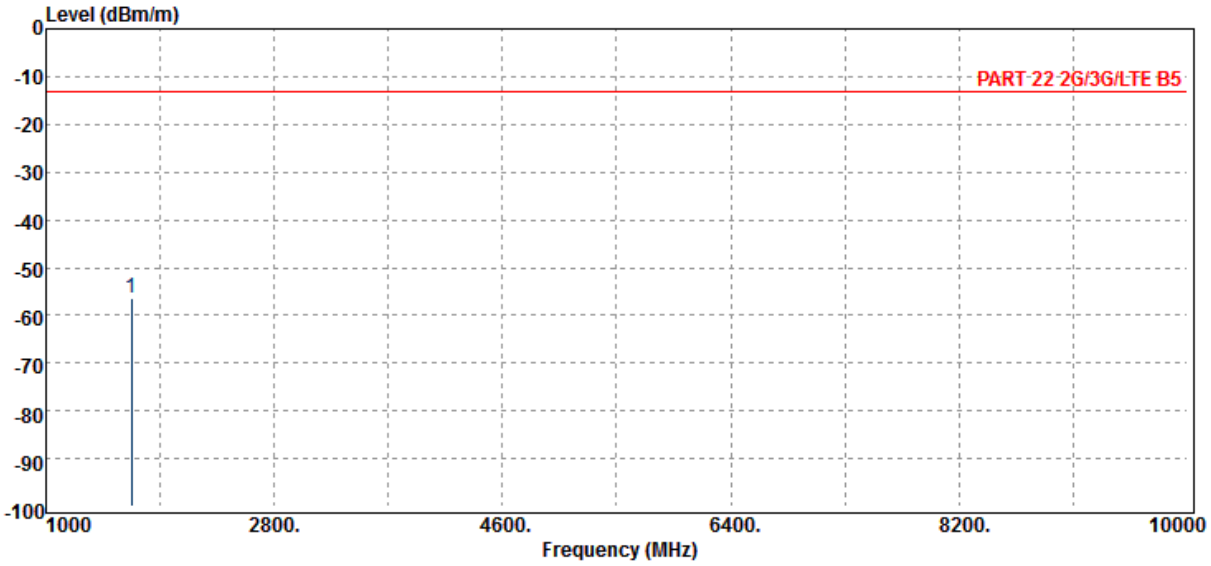
ARFCN	:CH 4183	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-59.96	-58.71	3.01	-4.26	-13.00	-46.96

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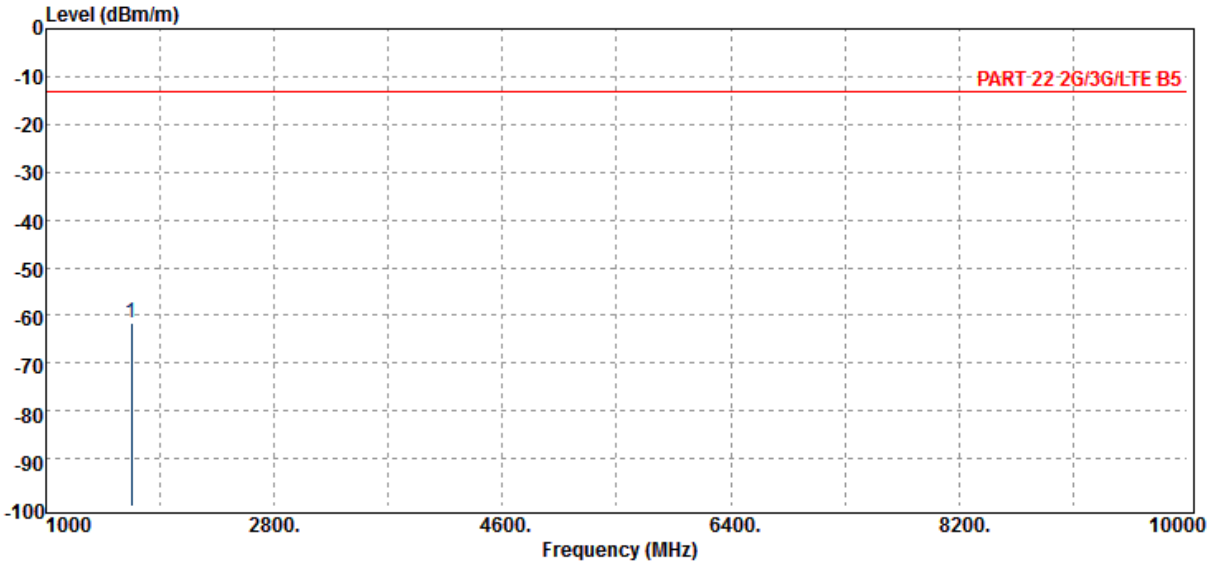
ARFCN	:CH 4233	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-56.52	-55.27	3.01	-4.26	-13.00	-43.52

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ARFCN	:CH 4233	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

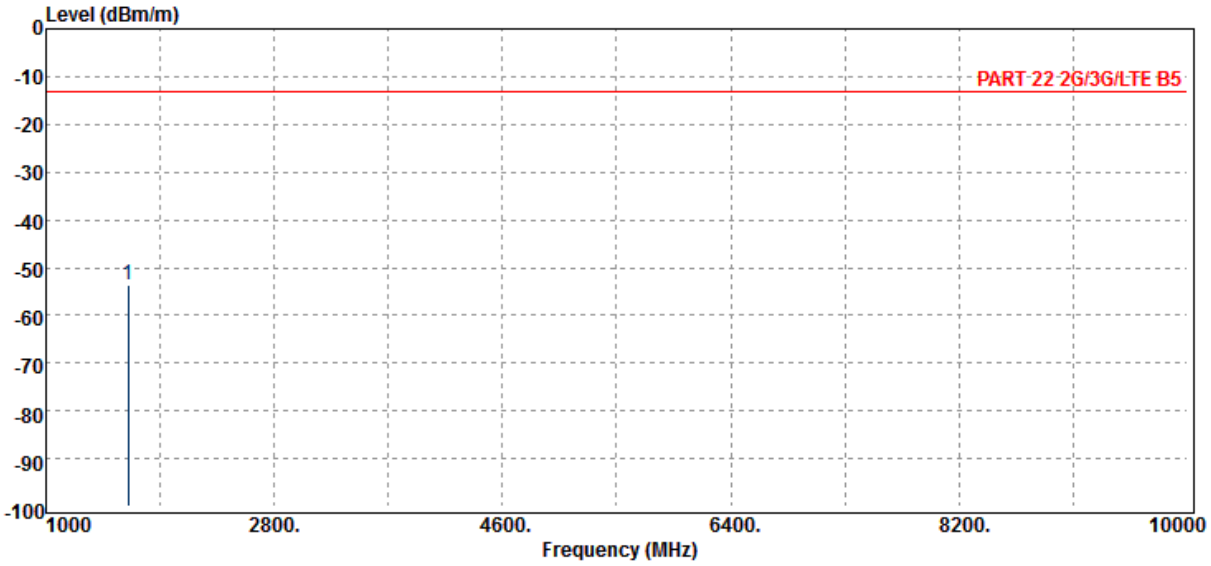


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-61.47	-60.22	3.01	-4.26	-13.00	-48.47

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Radiated Spurious Emission Measurement Result: CDMA BC0 Mode

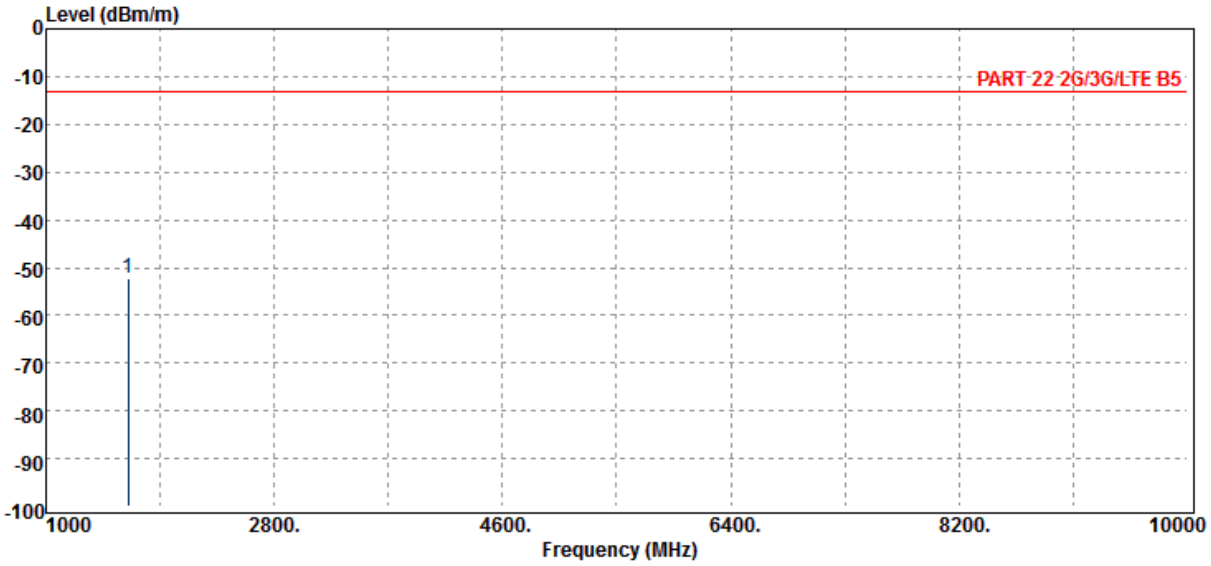
ARFCN	:CH 1013	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1649.40	H	-53.62	-52.46	3.05	-4.21	-13.00	-40.62

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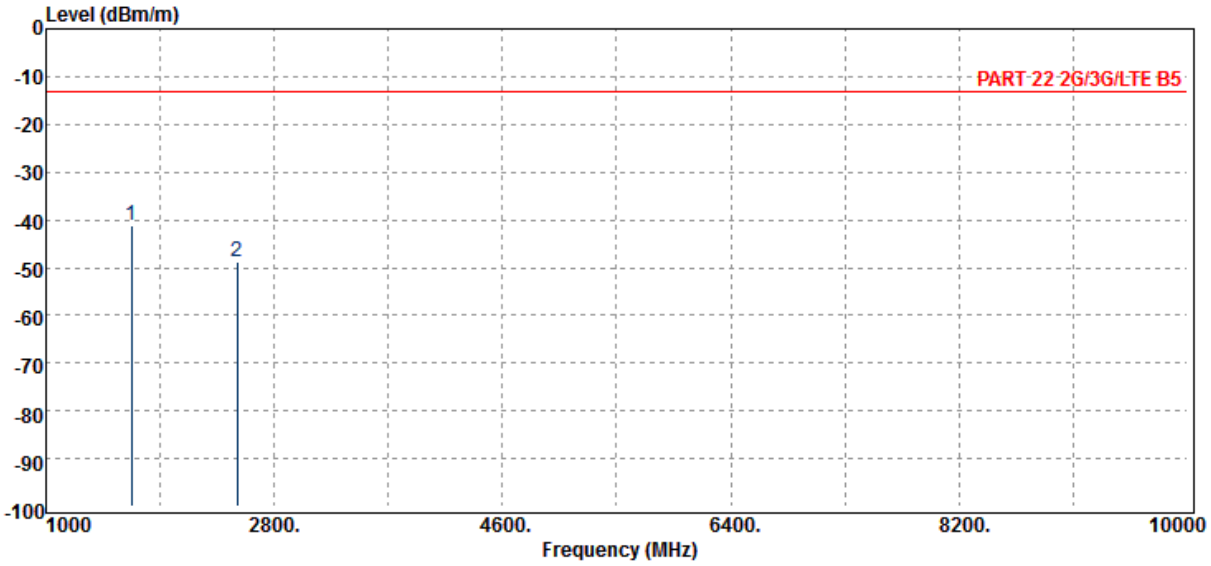
ARFCN	:CH 1013	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1649.40	H	-52.33	-51.17	3.05	-4.21	-13.00	-39.33

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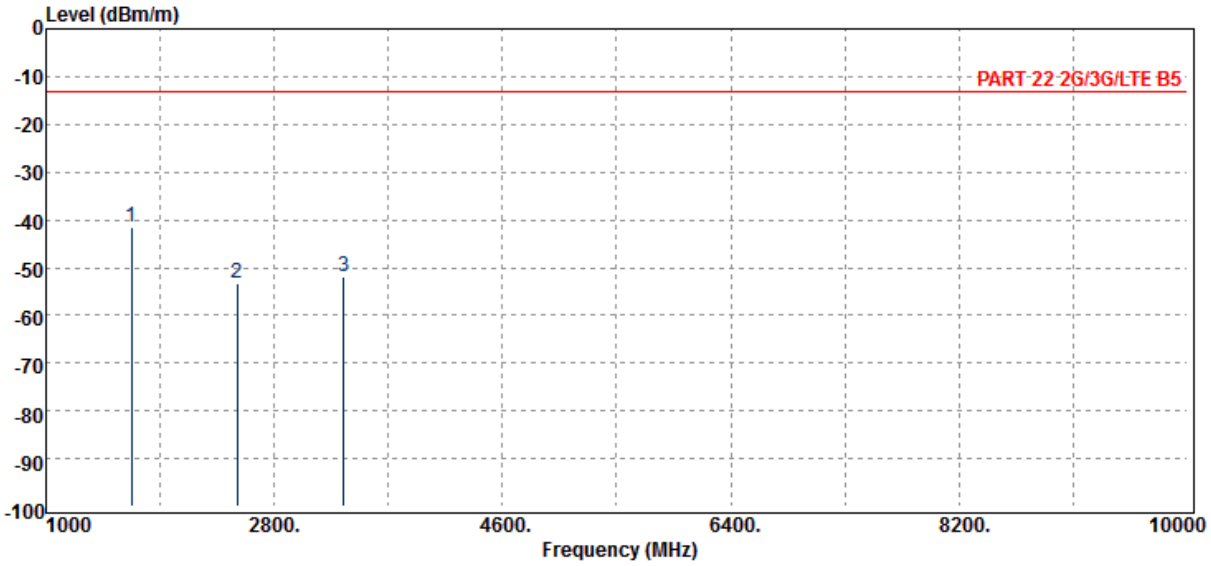
ARFCN	:CH 384	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.04	H	-41.17	-39.93	3.01	-4.26	-13.00	-28.17
2509.56	H	-48.88	-47.20	3.67	-5.35	-13.00	-35.88

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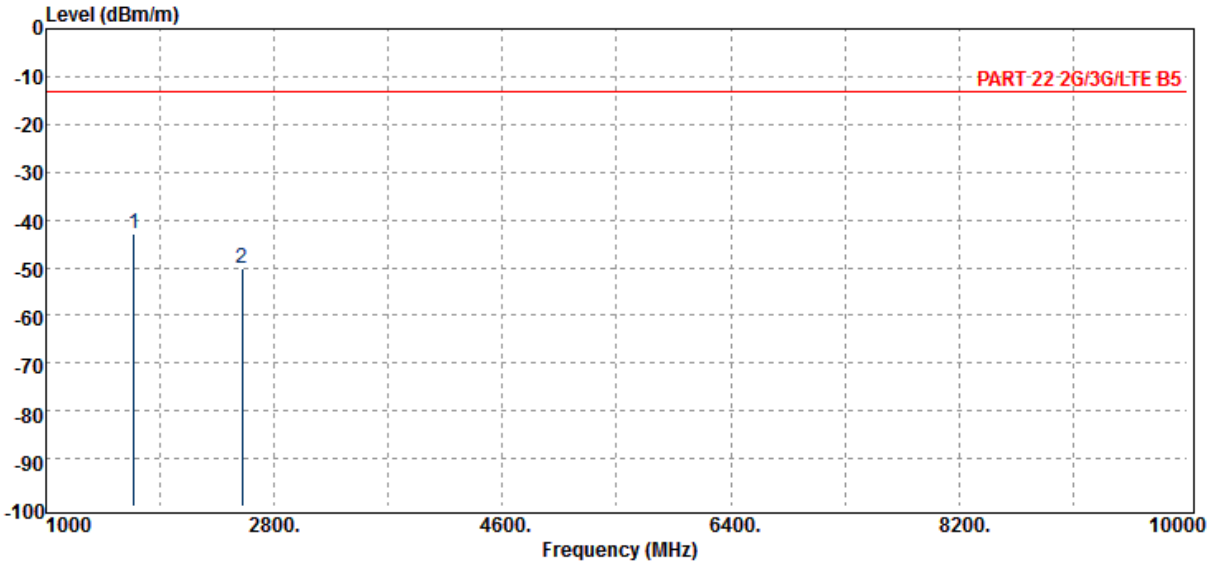
ARFCN	:CH 384	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.04	H	-41.69	-40.44	3.01	-4.26	-13.00	-28.69
2509.56	H	-53.42	-51.74	3.67	-5.35	-13.00	-40.42
3346.08	H	-51.74	-51.20	5.71	-6.25	-13.00	-38.74

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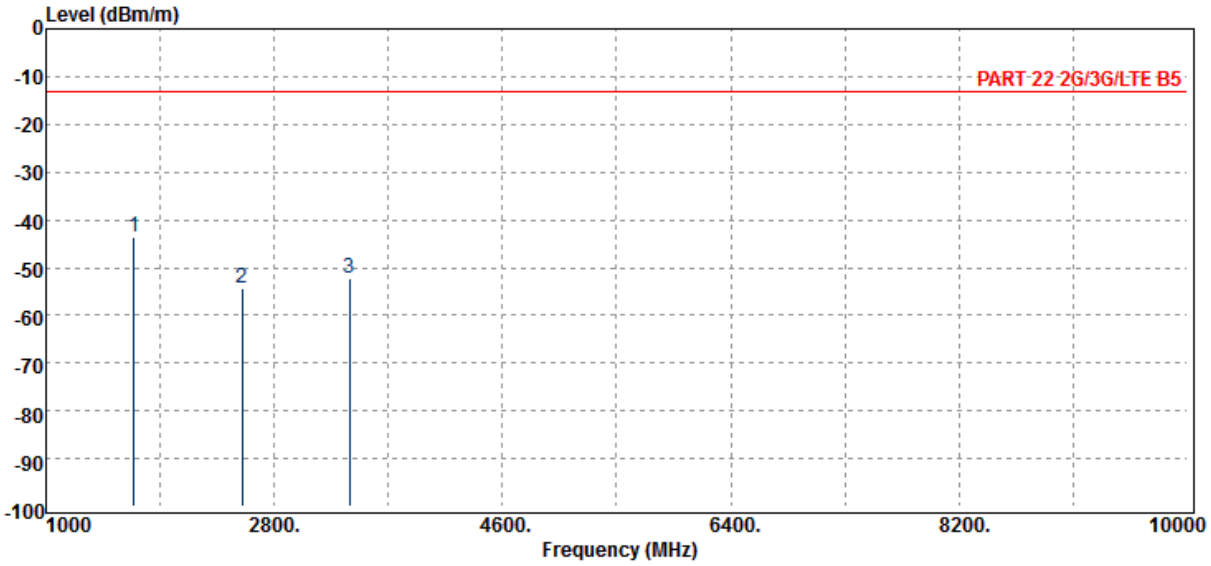
ARFCN	:CH 777	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.62	H	-42.95	-41.64	2.96	-4.28	-13.00	-29.95
2544.93	H	-50.05	-48.39	3.75	-5.41	-13.00	-37.05

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ARFCN	:CH 777	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

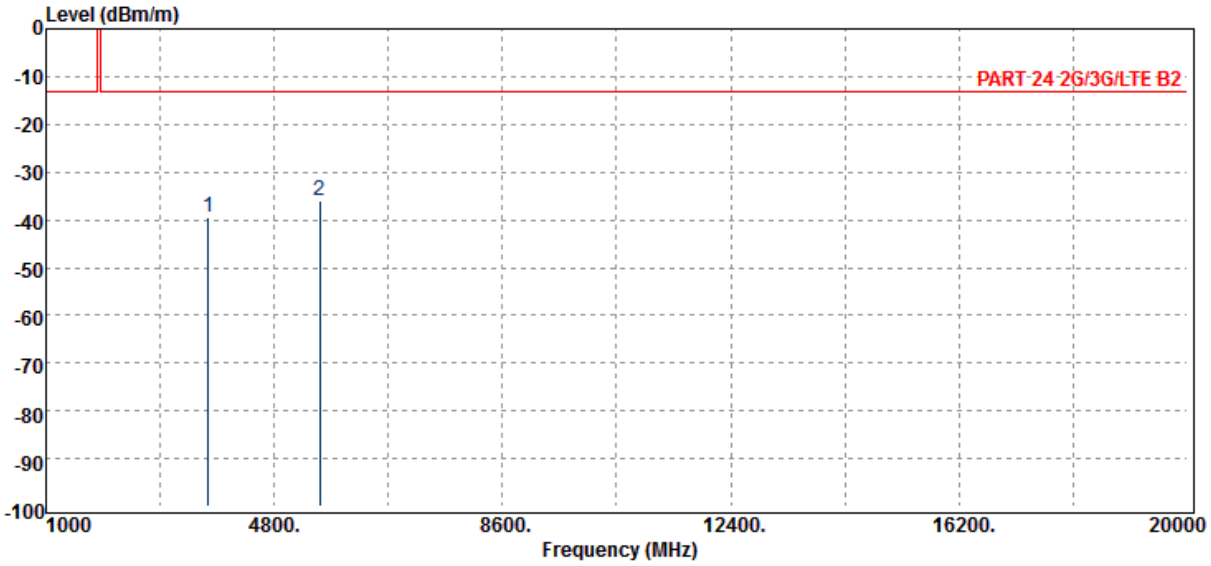


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.62	H	-43.73	-42.42	2.96	-4.28	-13.00	-30.73
2544.93	H	-54.36	-52.70	3.75	-5.41	-13.00	-41.36
3393.24	H	-52.33	-51.72	5.85	-6.46	-13.00	-39.33

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Radiated Spurious Emission Measurement Result: CDMA BC1 Mode

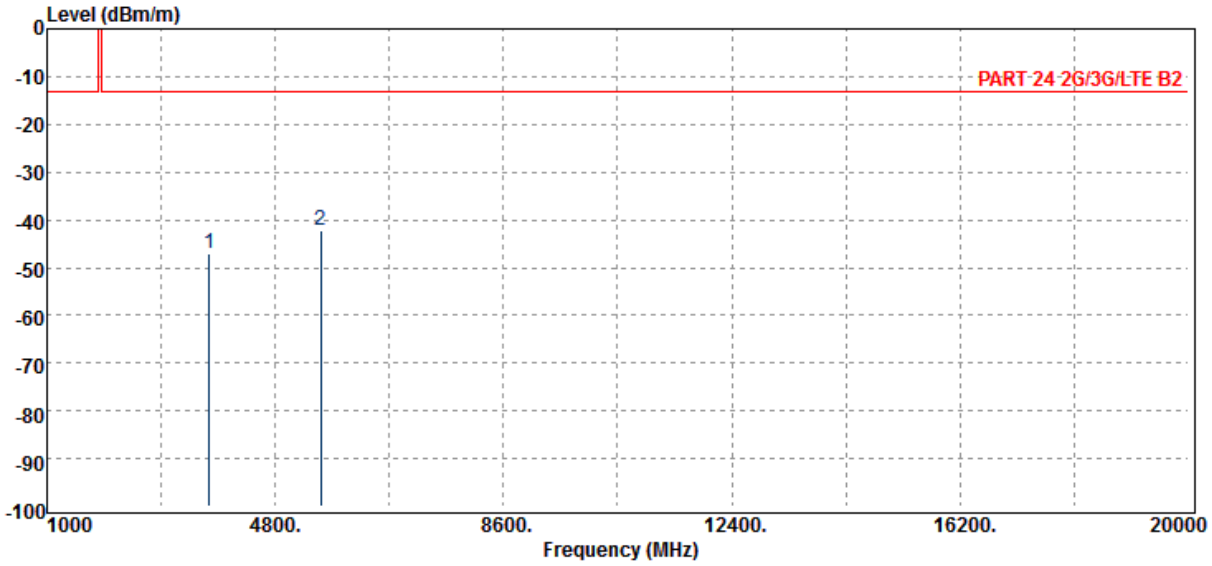
ARFCN	:CH 25	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3702.50	S	-39.34	-40.88	8.43	-6.88	-13.00	-26.34
5553.75	S	-36.05	-37.61	10.10	-8.54	-13.00	-23.05

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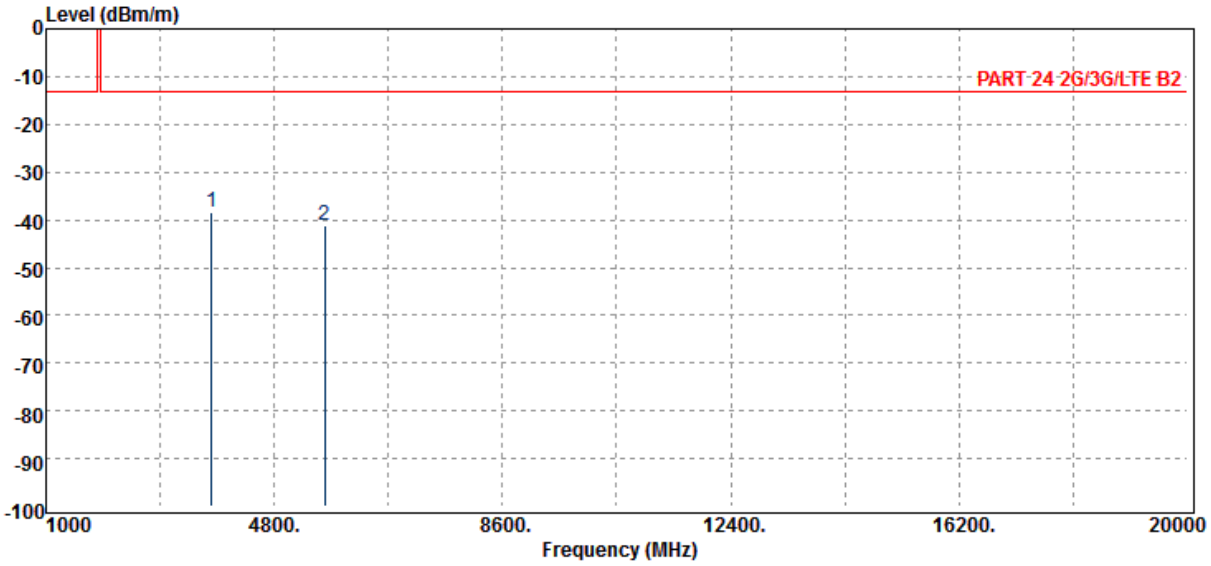
ARFCN	:CH 25	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3702.50	S	-47.21	-48.75	8.43	-6.88	-13.00	-34.21
5553.75	S	-42.08	-43.64	10.10	-8.54	-13.00	-29.08

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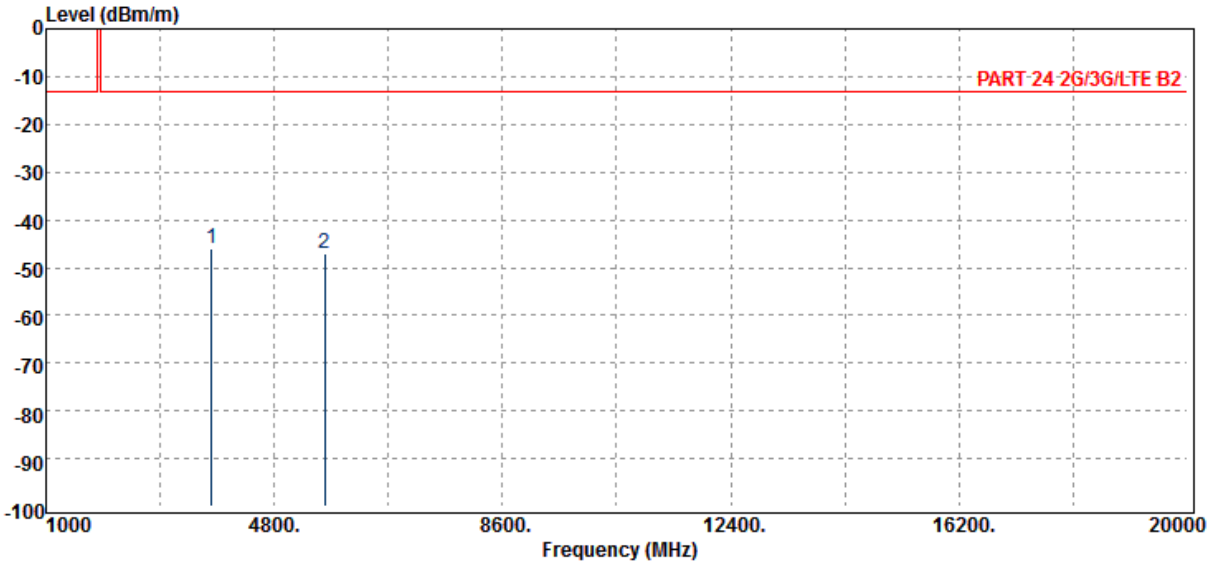
ARFCN	:CH 600	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	S	-38.44	-39.88	8.46	-7.02	-13.00	-25.44
5640.00	S	-41.01	-42.54	10.11	-8.59	-13.00	-28.01

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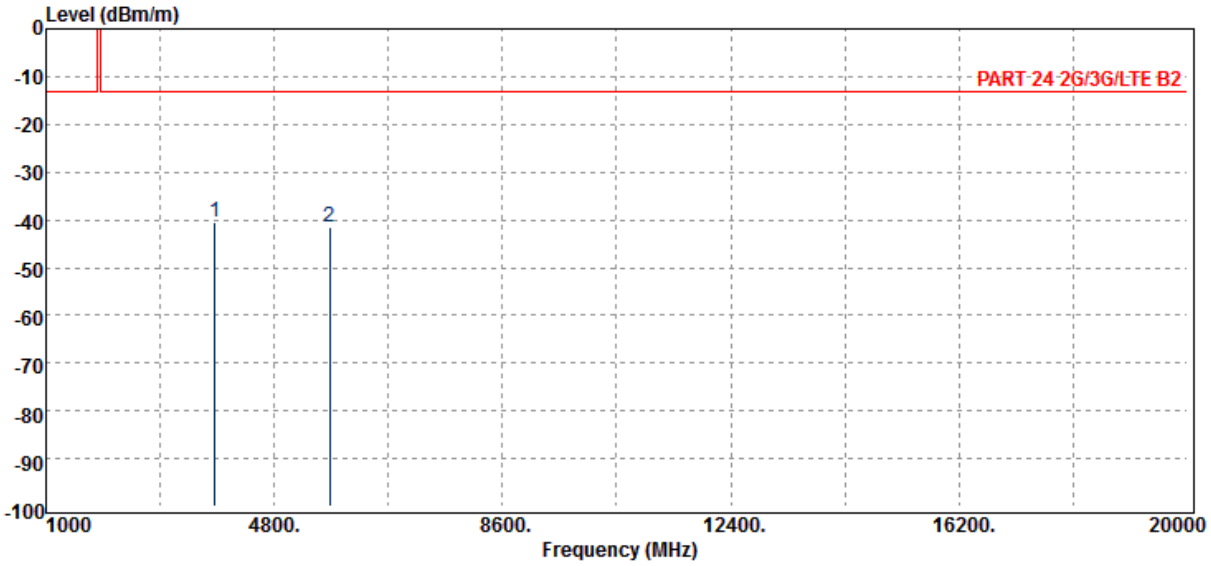
ARFCN	:CH 600	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	S	-46.07	-47.51	8.46	-7.02	-13.00	-33.07
5640.00	S	-47.14	-48.66	10.11	-8.59	-13.00	-34.14

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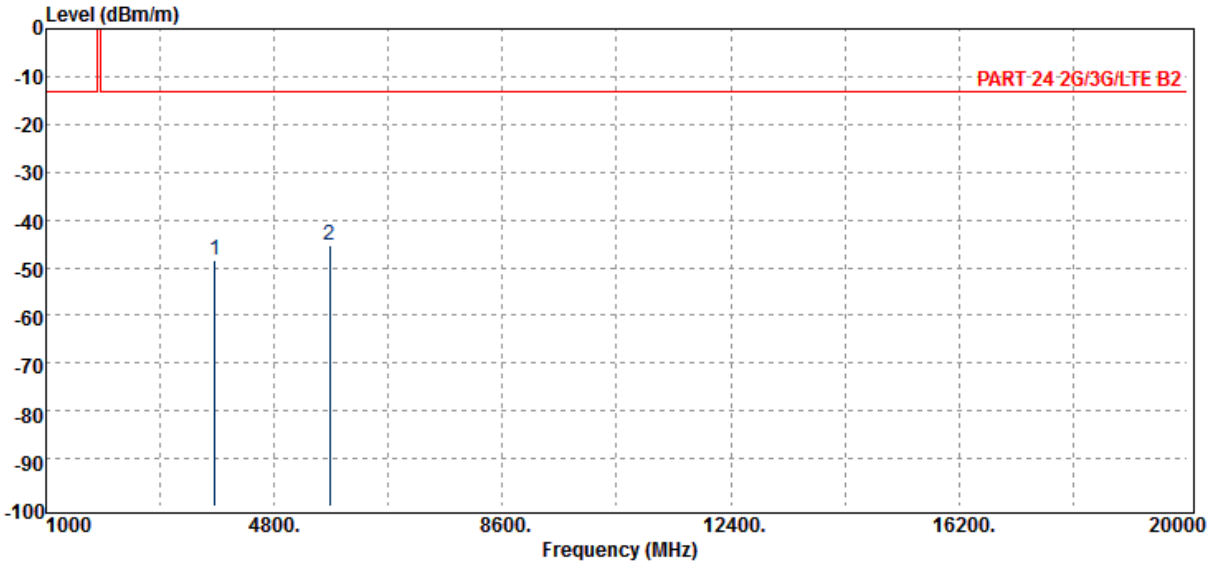
ARFCN	:CH 1175	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3817.50	S	-40.47	-41.92	8.50	-7.05	-13.00	-27.47
5726.25	S	-41.38	-42.86	10.12	-8.63	-13.00	-28.38

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ARFCN	:CH 1175	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

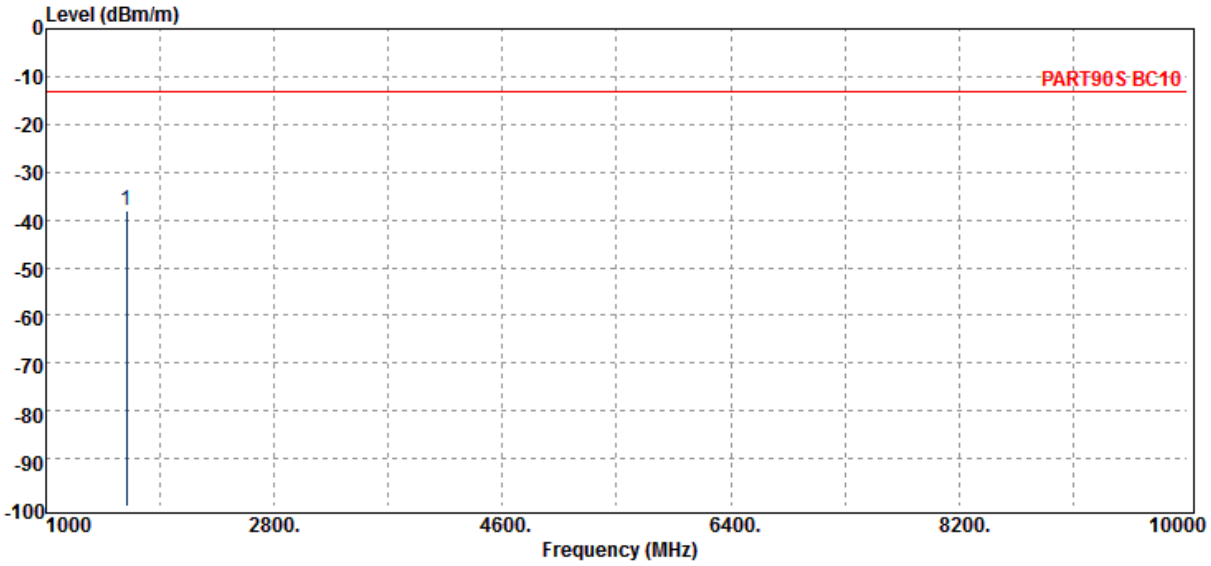


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3817.50	S	-48.28	-49.73	8.50	-7.05	-13.00	-35.28
5726.25	S	-45.29	-46.78	10.12	-8.63	-13.00	-32.29

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Radiated Spurious Emission Measurement Result: CDMA BC10 Mode

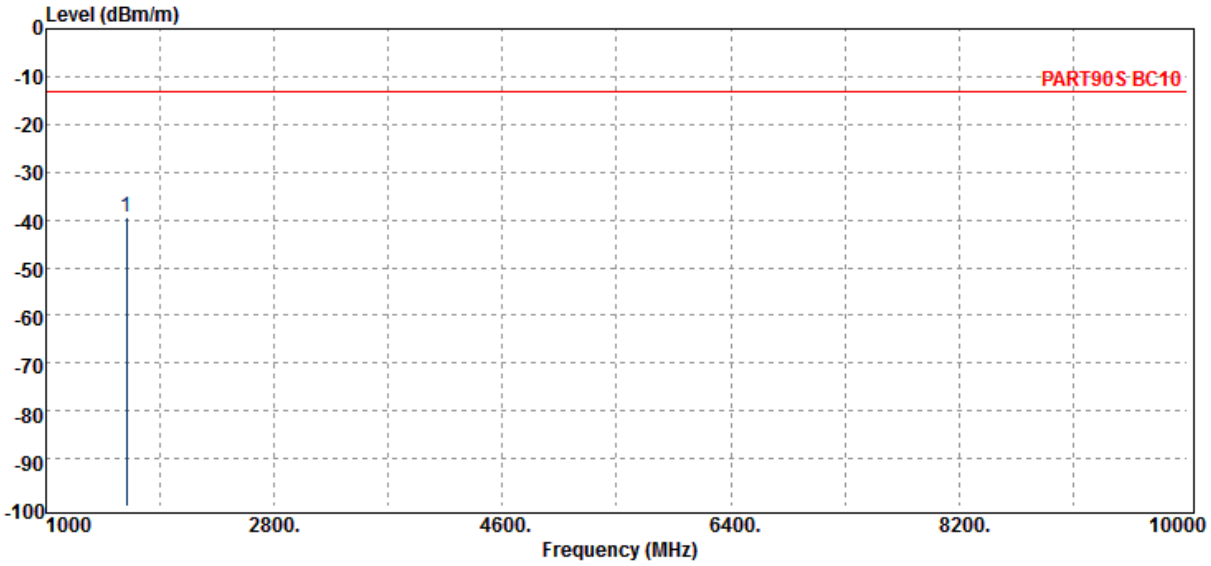
ARFCN	:CH 476	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1635.80	H	-37.90	-36.79	3.08	-4.19	-13.00	-24.90

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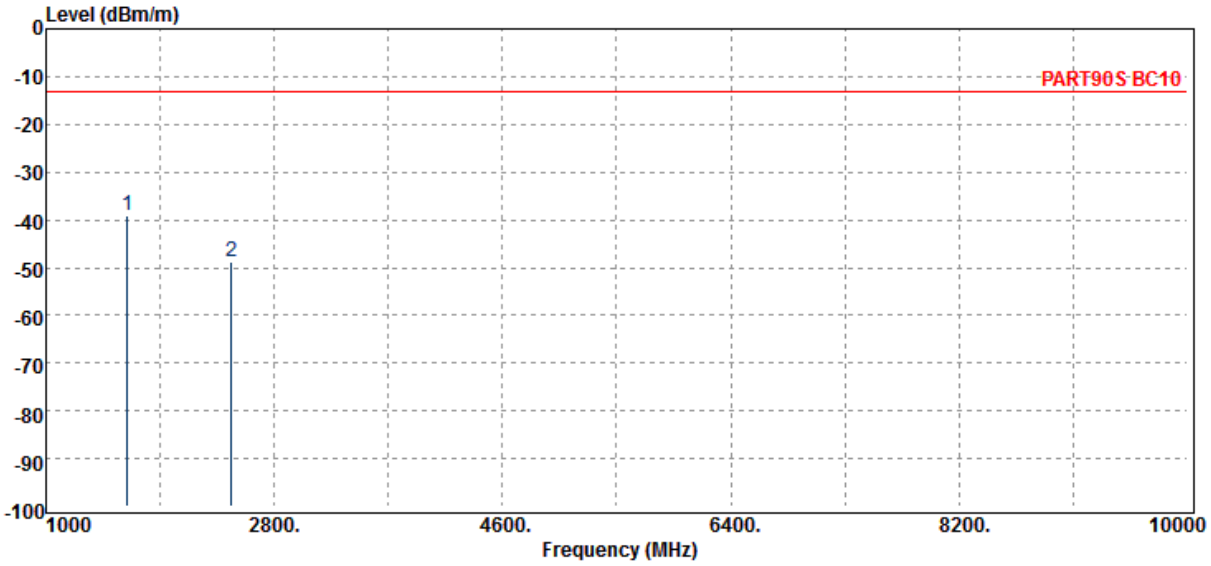
ARFCN	:CH 476	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1635.80	H	-39.37	-38.26	3.08	-4.19	-13.00	-26.37

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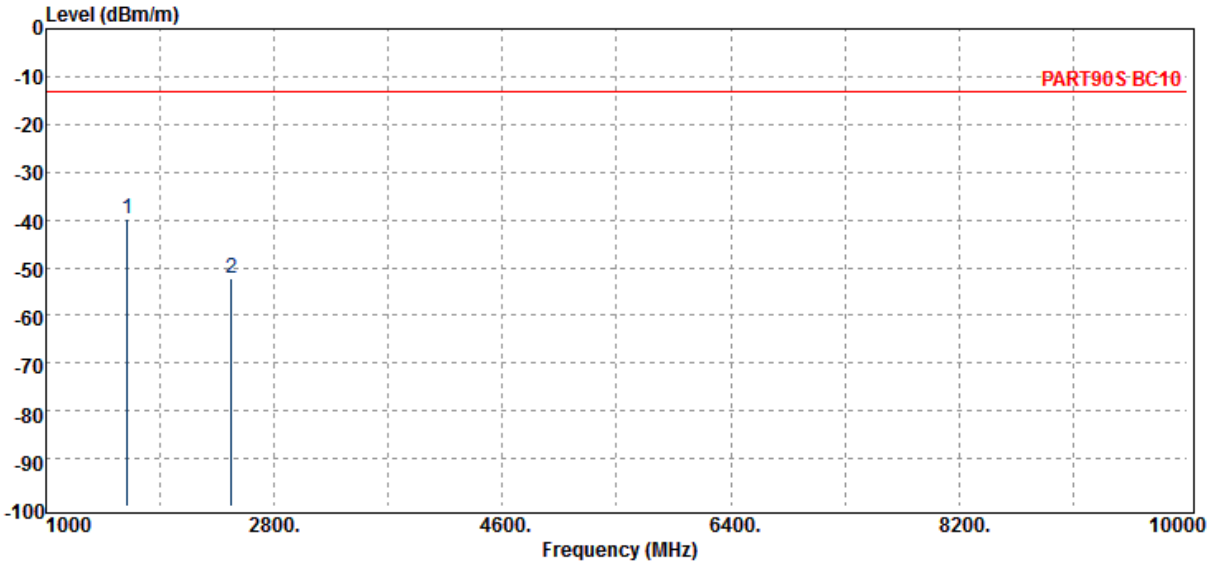
ARFCN	:CH 580	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1641.00	H	-39.14	-38.01	3.07	-4.20	-13.00	-26.14
2461.50	H	-48.68	-46.94	3.57	-5.31	-13.00	-35.68

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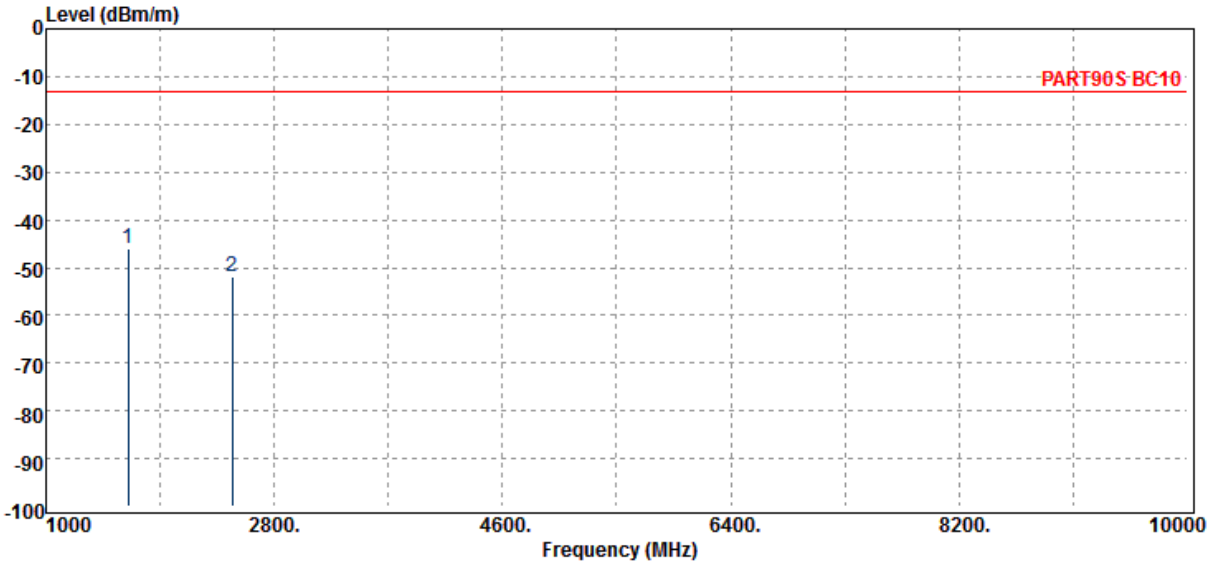
ARFCN	:CH 580	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1641.00	H	-39.72	-38.59	3.07	-4.20	-13.00	-26.72
2461.50	H	-52.29	-50.55	3.57	-5.31	-13.00	-39.29

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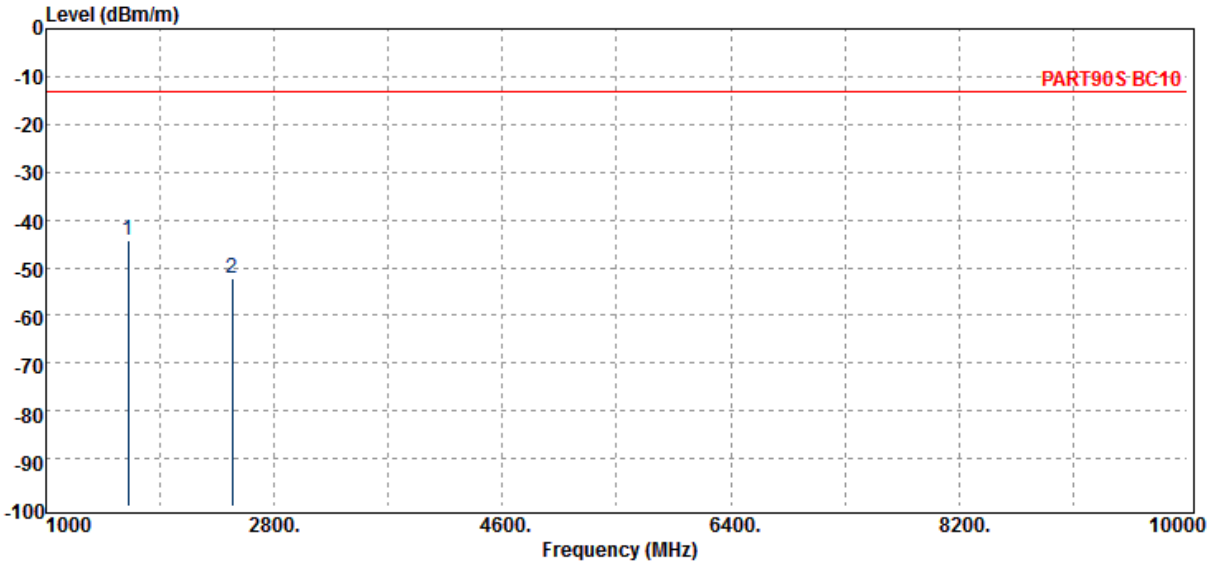
ARFCN	:CH 684	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1646.20	H	-46.06	-44.91	3.06	-4.21	-13.00	-33.06
2469.30	H	-51.87	-50.14	3.58	-5.32	-13.00	-38.87

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ARFCN	:CH 684	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

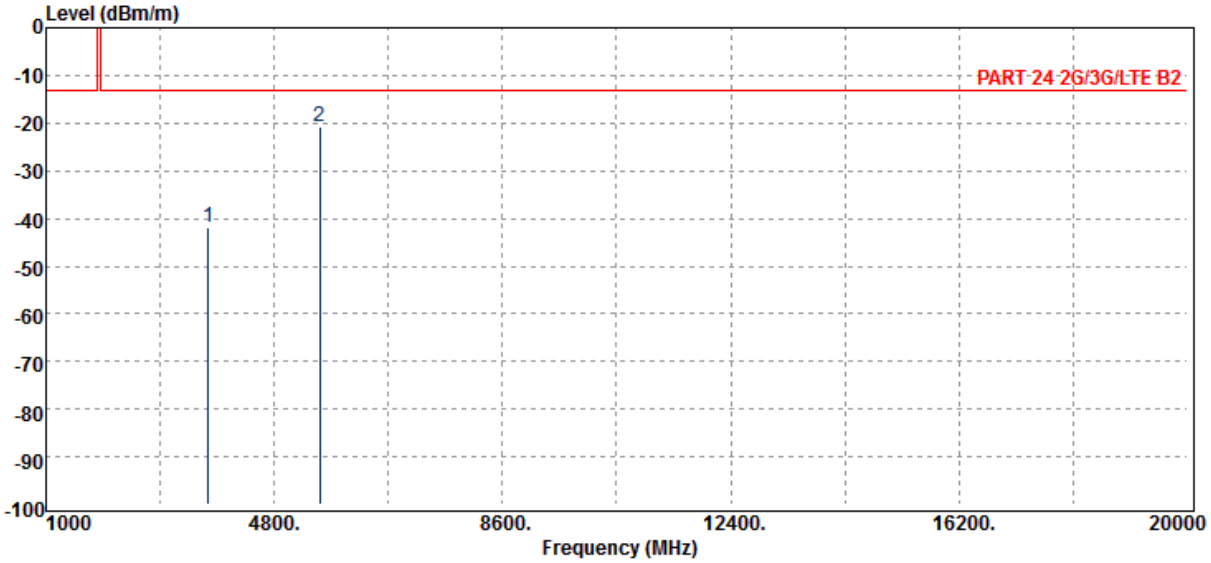


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1646.20	H	-44.24	-43.09	3.06	-4.21	-13.00	-31.24
2469.30	H	-52.36	-50.63	3.58	-5.32	-13.00	-39.36

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

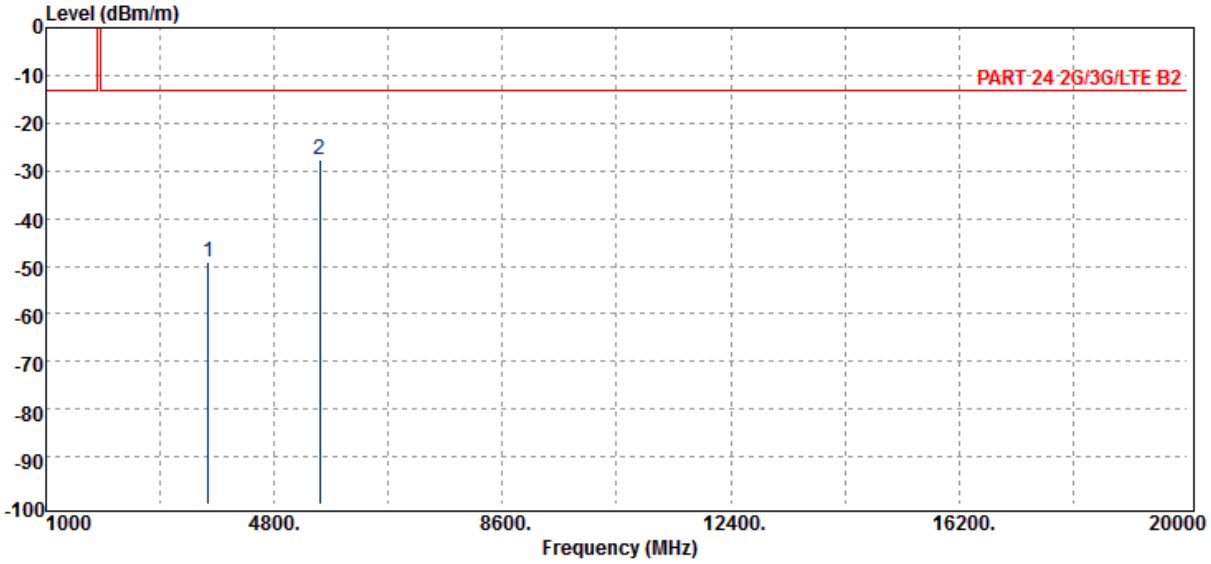
ARFCN	:CH 18607 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Safe Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3701.40	H	-41.92	-43.46	8.43	-6.88	-13.00	-28.92
5552.10	H	-20.90	-22.46	10.10	-8.55	-13.00	-7.90

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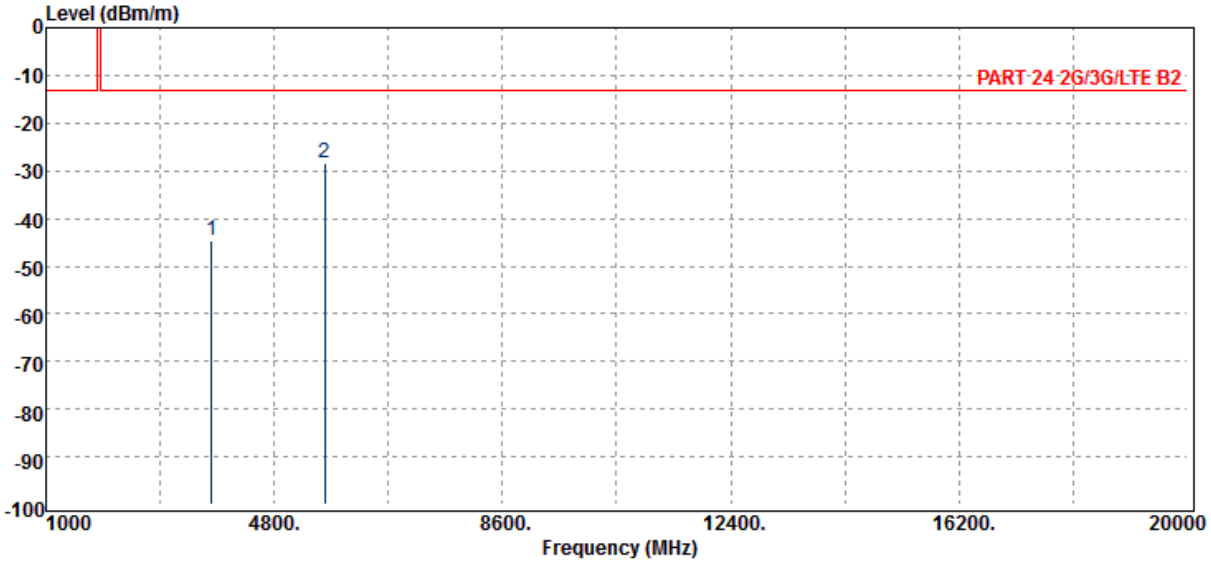
ARFCN	:CH 18607 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3701.40	H	-49.11	-50.65	8.43	-6.88	-13.00	-36.11
5552.10	H	-27.69	-29.25	10.10	-8.55	-13.00	-14.69

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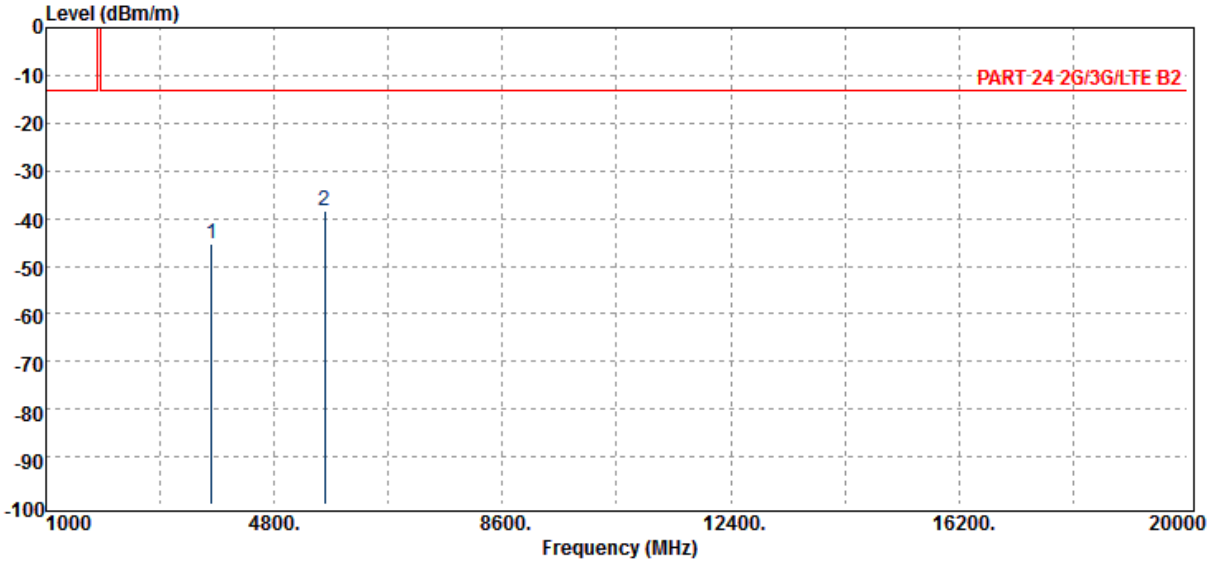
ARFCN	:CH 18900 QPSK BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-44.59	-46.03	8.46	-7.02	-13.00	-31.59
5640.00	H	-28.29	-29.81	10.11	-8.59	-13.00	-15.29

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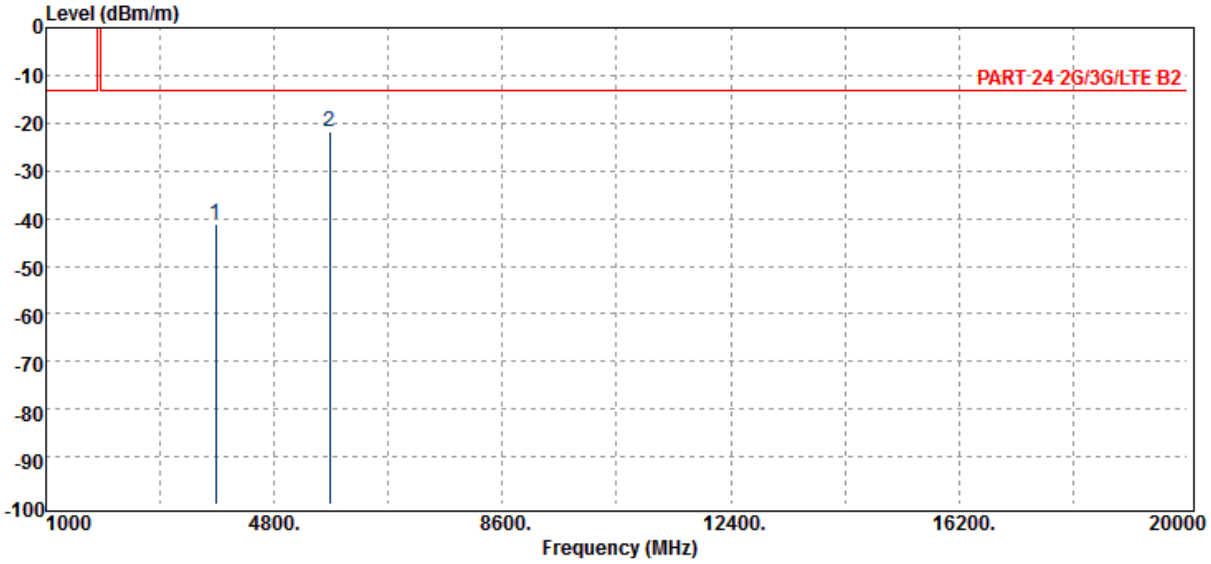
ARFCN	:CH 18900 QPSK BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-45.38	-46.82	8.46	-7.02	-13.00	-32.38
5640.00	H	-38.32	-39.84	10.11	-8.59	-13.00	-25.32

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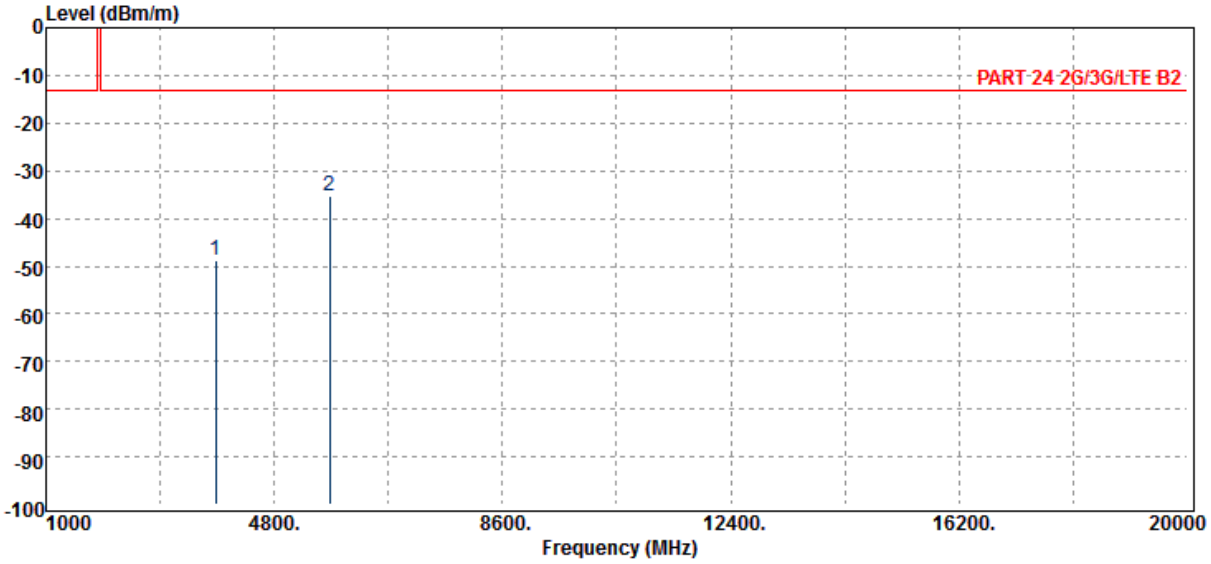
ARFCN	:CH 19193 QPSK BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3818.60	H	-41.11	-42.55	8.50	-7.05	-13.00	-28.11
5727.90	H	-21.79	-23.27	10.12	-8.64	-13.00	-8.79

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ARFCN	:CH 19193 QPSK BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

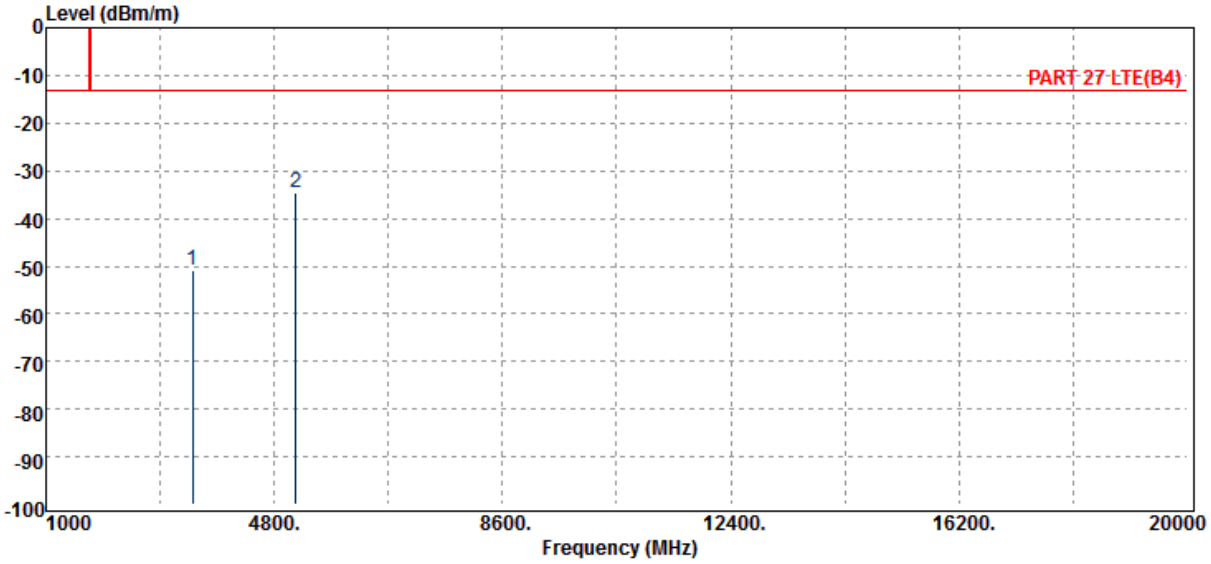


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3818.60	H	-48.86	-50.31	8.50	-7.05	-13.00	-35.86
5727.90	H	-35.33	-36.81	10.12	-8.64	-13.00	-22.33

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Radiated Spurious Emission Measurement Result:1 5MHz BW LTE-Band 4 (The Worst Case)

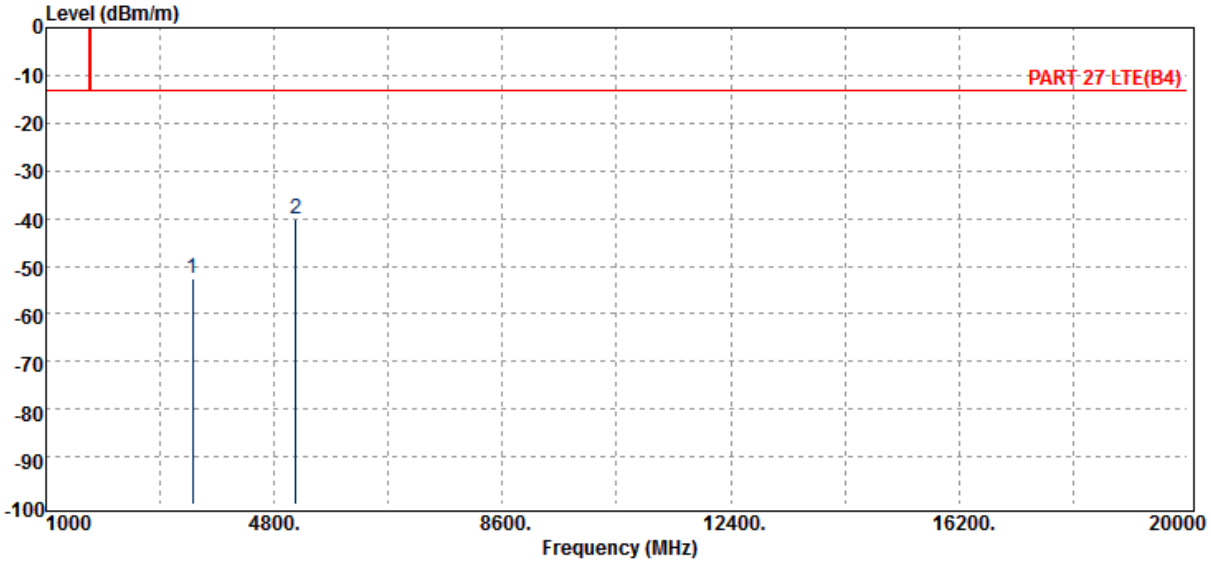
ARFCN	:CH 20025 16QAM BW 15 RB 1 74	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3435.00	H	-50.91	-52.49	8.12	-6.54	-13.00	-37.91
5152.50	H	-34.69	-36.10	9.89	-8.49	-13.00	-21.69

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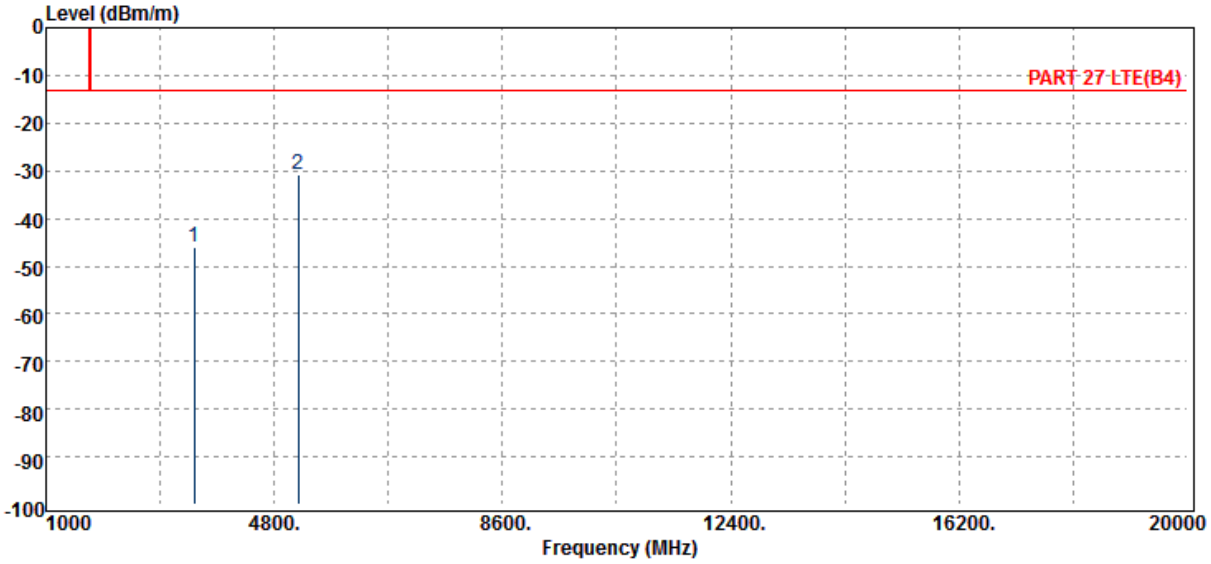
ARFCN	:CH 20025 16QAM BW 15 RB 1 74	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1717.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3435.00	H	-52.58	-54.16	8.12	-6.54	-13.00	-39.58
5152.50	H	-40.02	-41.43	9.89	-8.49	-13.00	-27.02

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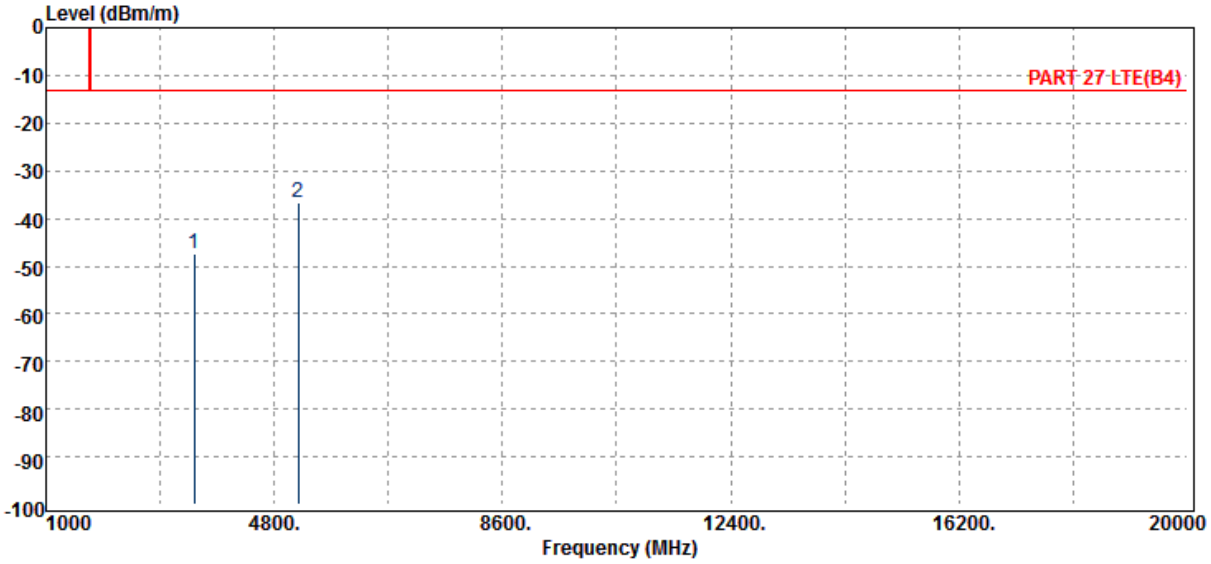
ARFCN	:CH 20175 16QAM BW 15 RB 1 74	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.00	H	-45.89	-47.56	8.20	-6.53	-13.00	-32.89
5197.50	H	-30.64	-32.07	9.92	-8.49	-13.00	-17.64

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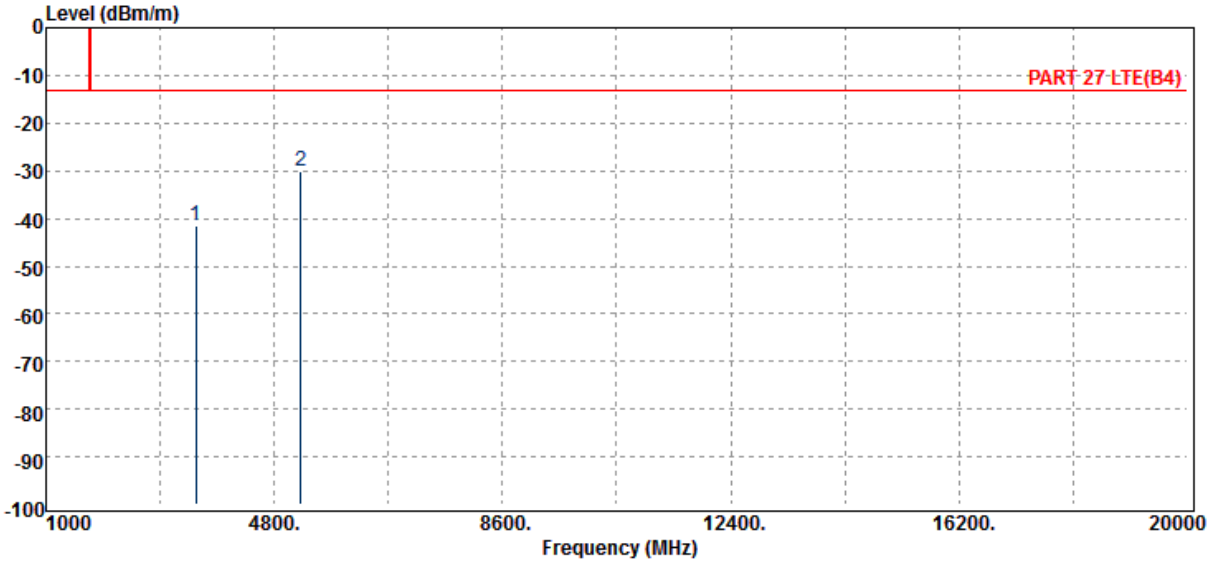
ARFCN	:CH 20175 16QAM BW 15 RB 1 74	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.00	H	-47.29	-48.96	8.20	-6.53	-13.00	-34.29
5197.50	H	-36.55	-37.98	9.92	-8.49	-13.00	-23.55

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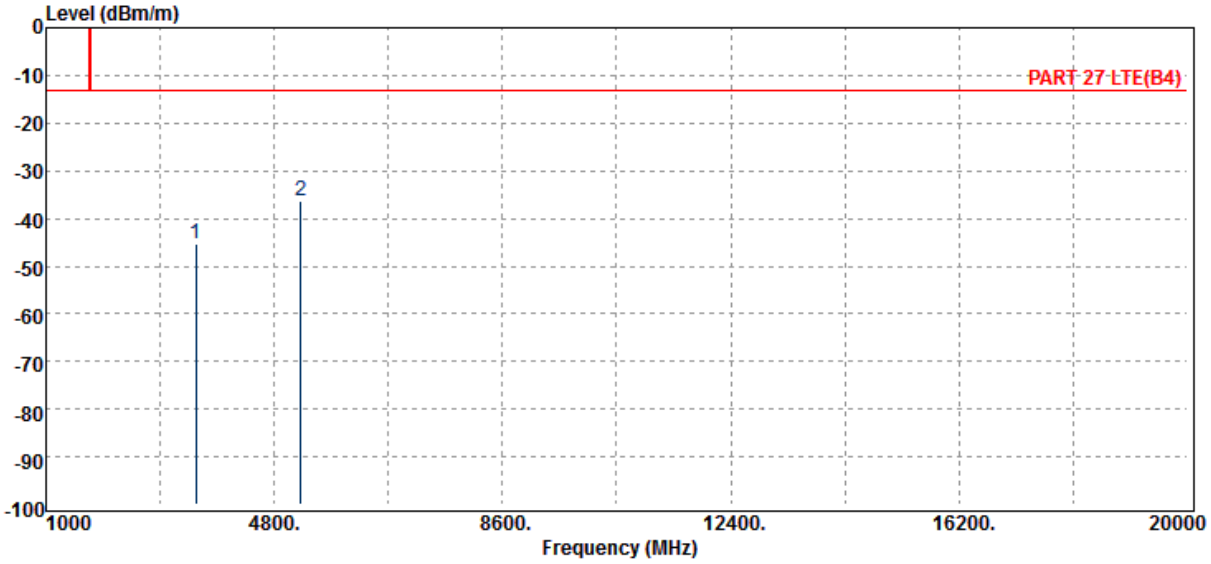
ARFCN	:CH 20325 16QAM BW 15 RB 1 74	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3495.00	H	-41.53	-43.18	8.29	-6.64	-13.00	-28.53
5242.50	H	-30.08	-31.48	9.95	-8.55	-13.00	-17.08

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ARFCN	:CH 20325 16QAM BW 15 RB 1 74	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1747.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

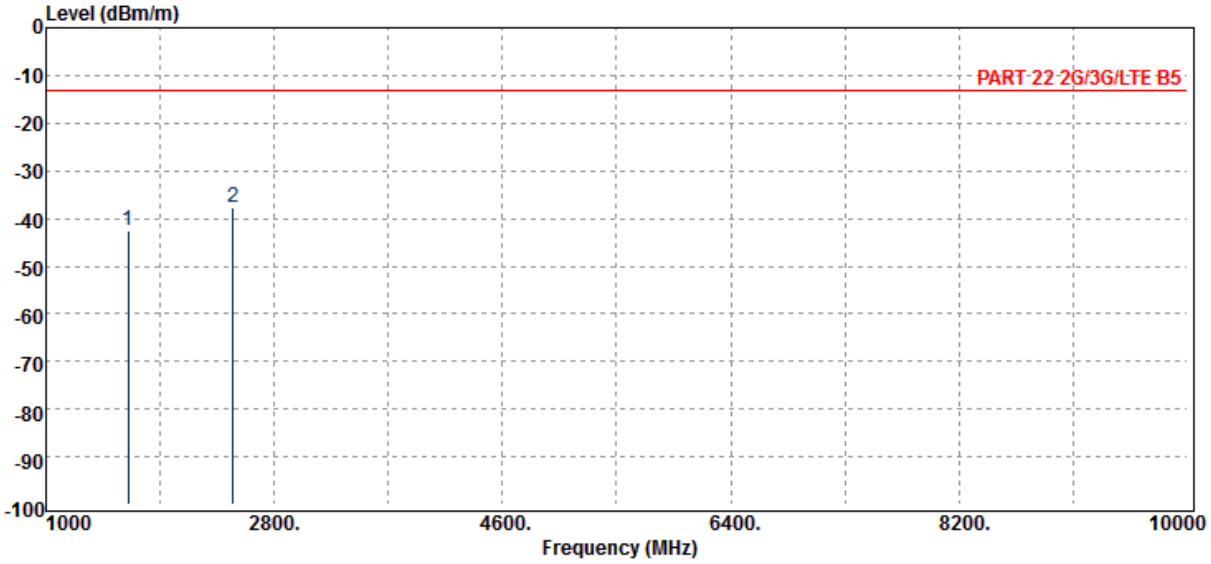


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3495.00	H	-45.40	-47.05	8.29	-6.64	-13.00	-32.40
5242.50	H	-36.47	-37.87	9.95	-8.55	-13.00	-23.47

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 5 (The Worst Case)

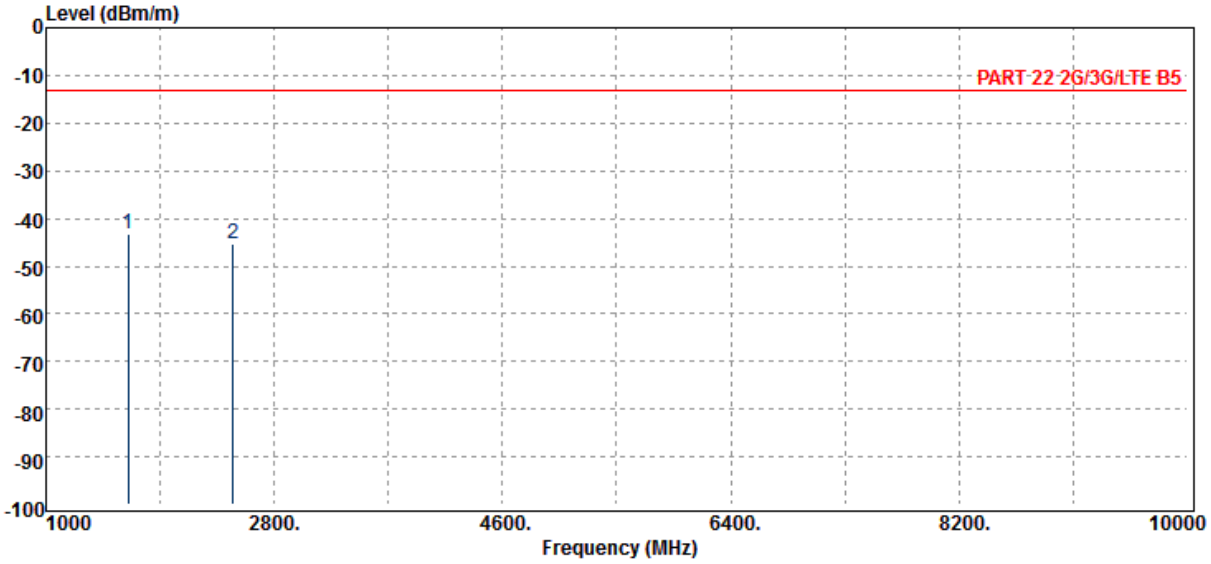
ARFCN	:CH 20407 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1649.40	H	-42.55	-41.39	3.05	-4.21	-13.00	-29.55
2474.10	H	-37.89	-36.16	3.59	-5.32	-13.00	-24.89

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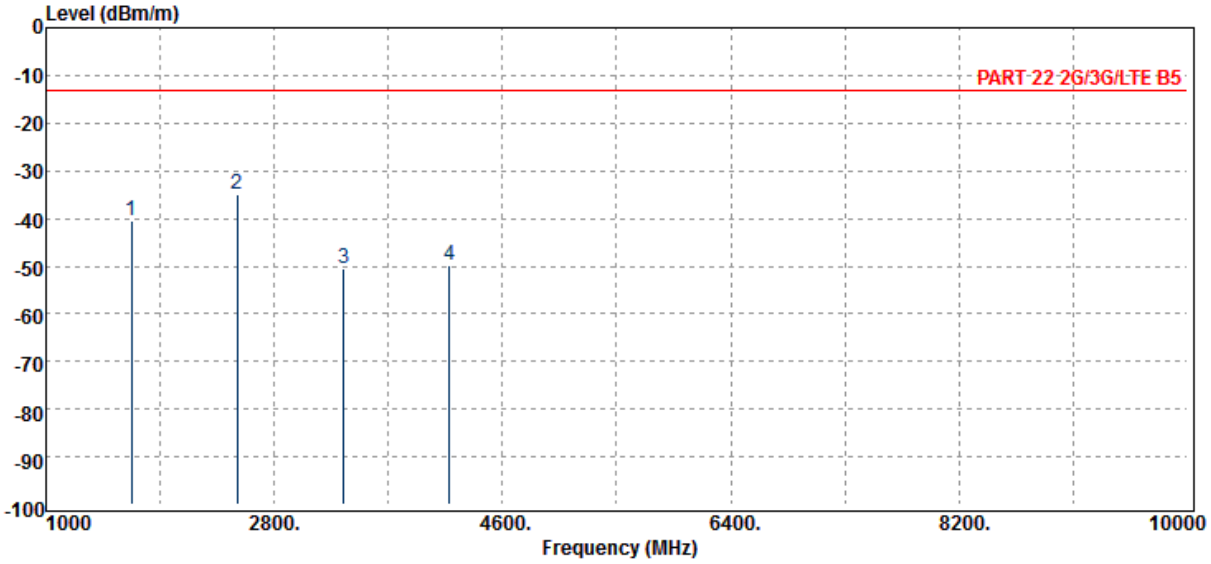
ARFCN	:CH 20407 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1649.40	H	-43.39	-42.22	3.05	-4.21	-13.00	-30.39
2474.10	H	-45.23	-43.51	3.59	-5.32	-13.00	-32.23

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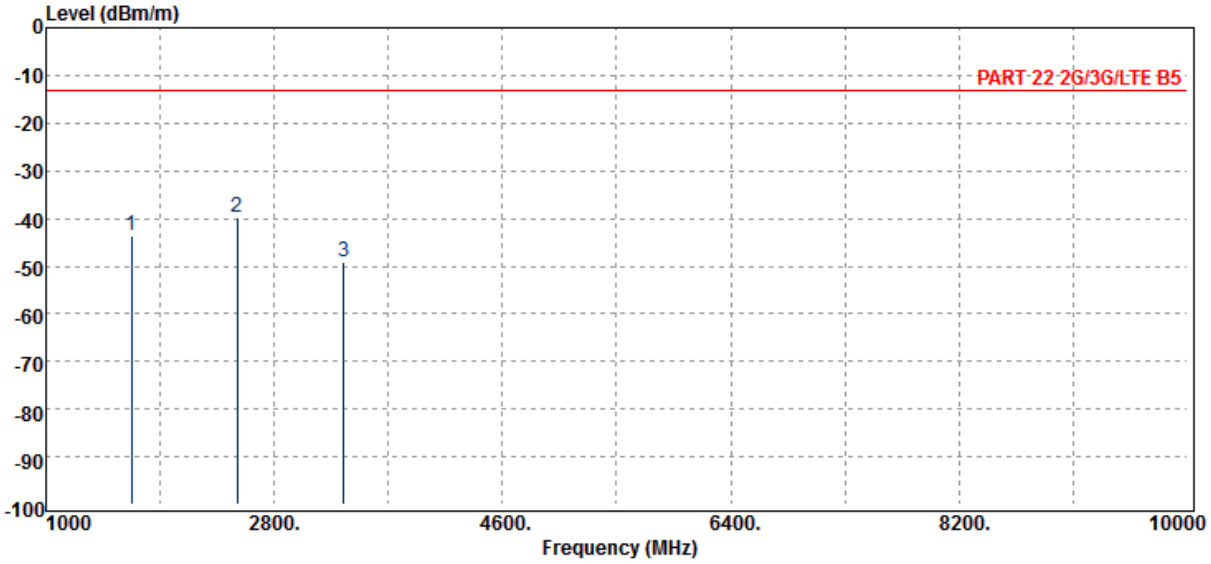
ARFCN	:CH 20525 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.00	H	-40.40	-39.15	3.01	-4.26	-13.00	-27.40
2509.50	H	-34.95	-33.27	3.67	-5.35	-13.00	-21.95
3346.00	H	-50.65	-50.11	5.71	-6.25	-13.00	-37.65
4182.50	H	-49.72	-48.66	6.60	-7.66	-13.00	-36.72

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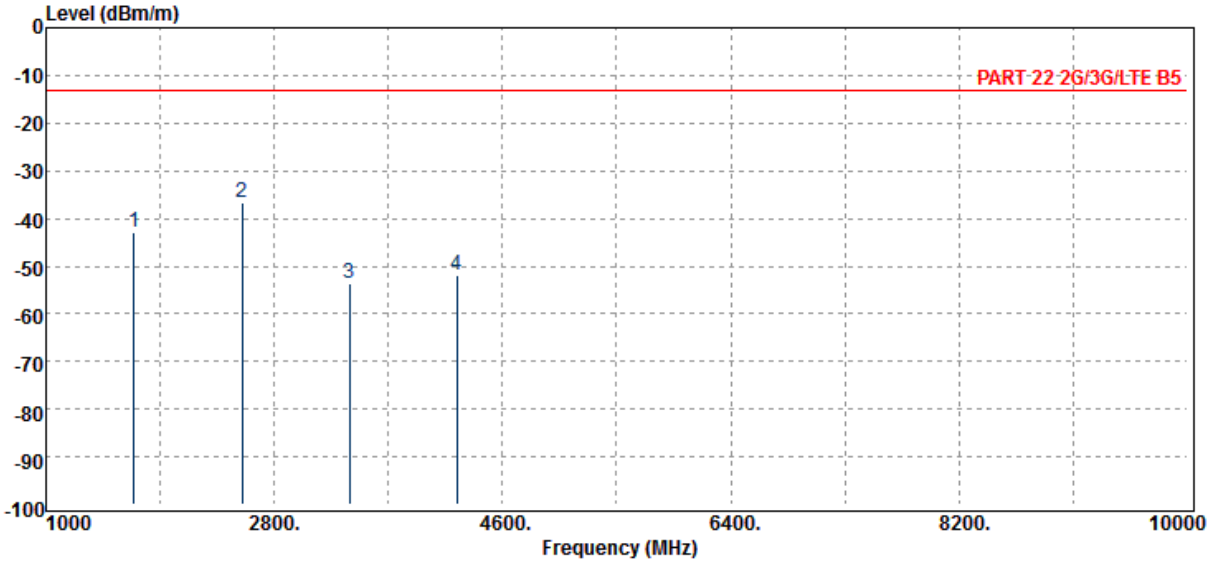
ARFCN	:CH 20525 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.00	H	-43.64	-42.40	3.01	-4.26	-13.00	-30.64
2509.50	H	-39.76	-38.08	3.67	-5.35	-13.00	-26.76
3346.00	H	-49.00	-48.46	5.71	-6.25	-13.00	-36.00

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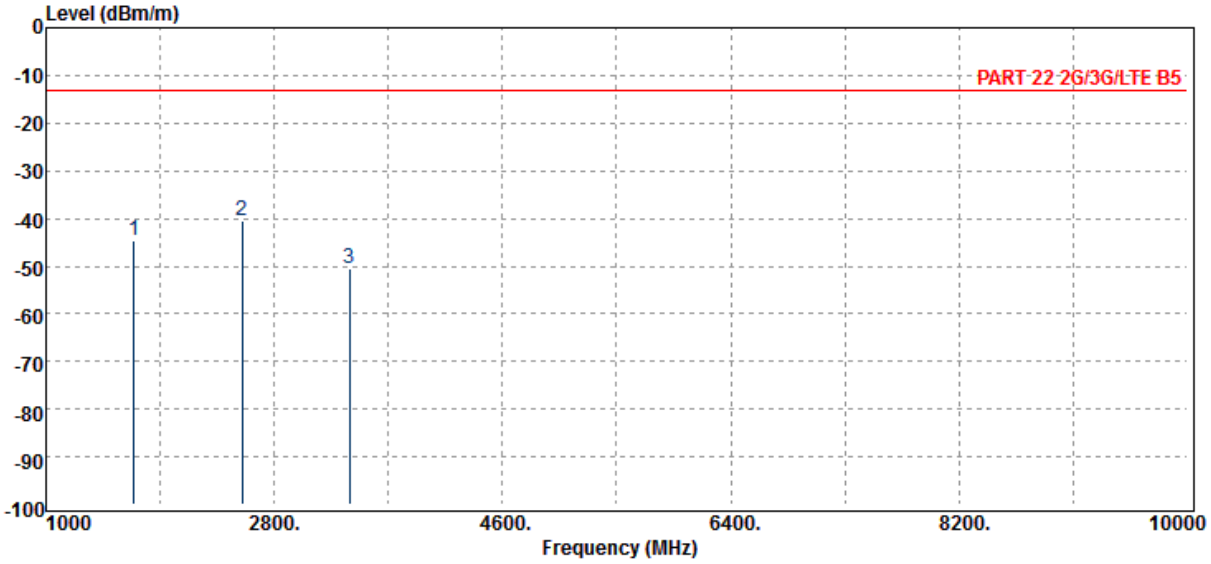
ARFCN	:CH 20643 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.60	H	-42.81	-41.50	2.96	-4.28	-13.00	-29.81
2544.90	H	-36.60	-34.95	3.75	-5.41	-13.00	-23.60
3393.20	H	-53.61	-52.99	5.85	-6.46	-13.00	-40.61
4241.50	H	-51.85	-50.78	6.65	-7.72	-13.00	-38.85

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ARFCN	:CH 20643 16QAM BW 1.4 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

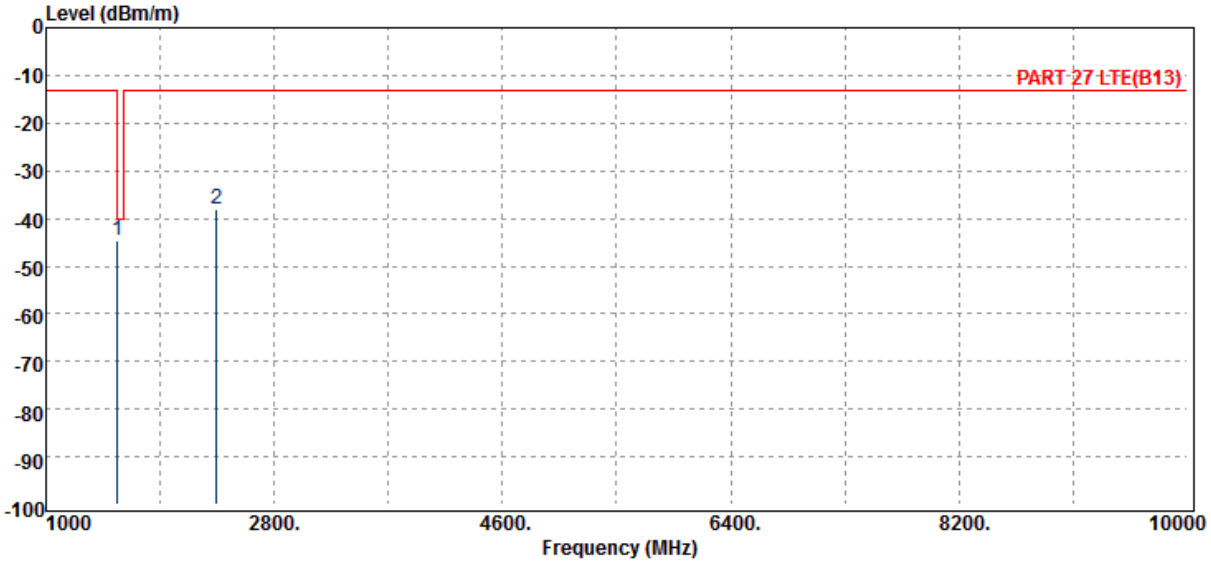


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.60	H	-44.67	-43.36	2.96	-4.28	-13.00	-31.67
2544.90	H	-40.54	-38.88	3.75	-5.41	-13.00	-27.54
3393.20	H	-50.35	-49.73	5.85	-6.46	-13.00	-37.35

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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(The Worst Case)

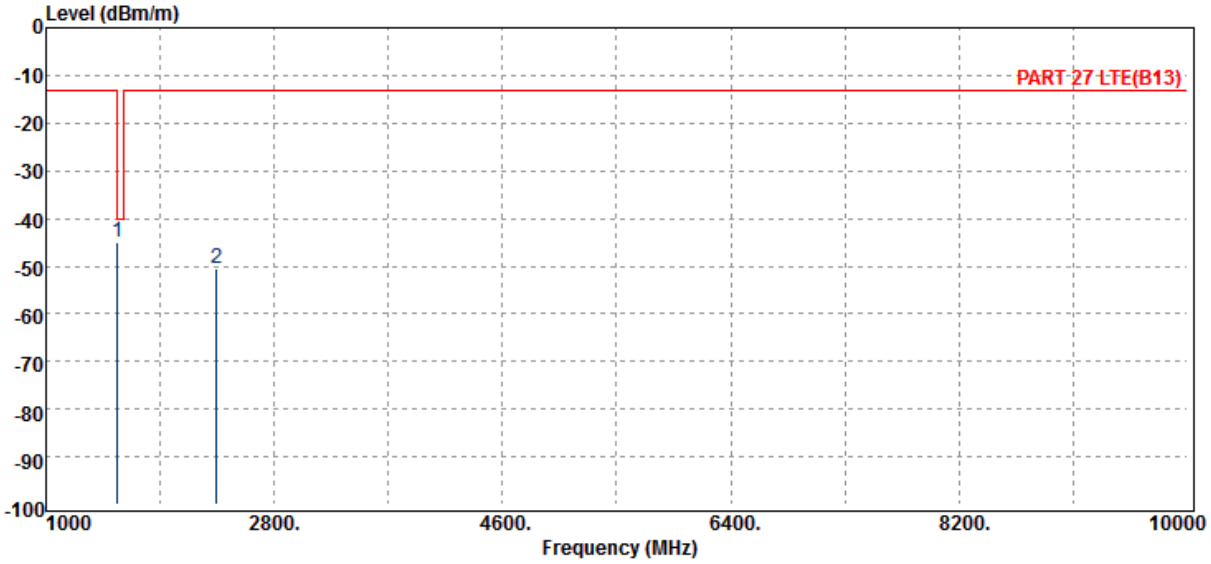
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1564.00	H	-44.68	-43.79	3.22	-4.11	-40.00	-4.68
2346.00	H	-37.94	-36.15	3.31	-5.09	-13.00	-24.94

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ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

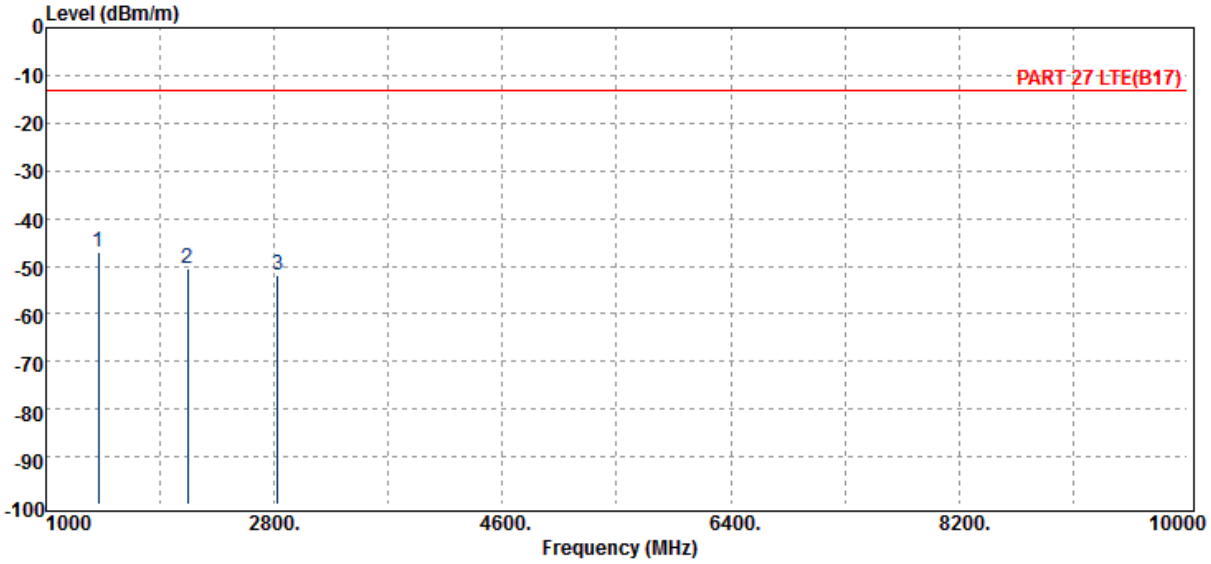


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1564.00	H	-45.13	-44.24	3.22	-4.11	-40.00	-5.13
2346.00	H	-50.66	-48.88	3.31	-5.09	-13.00	-37.66

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (The Worst Case)

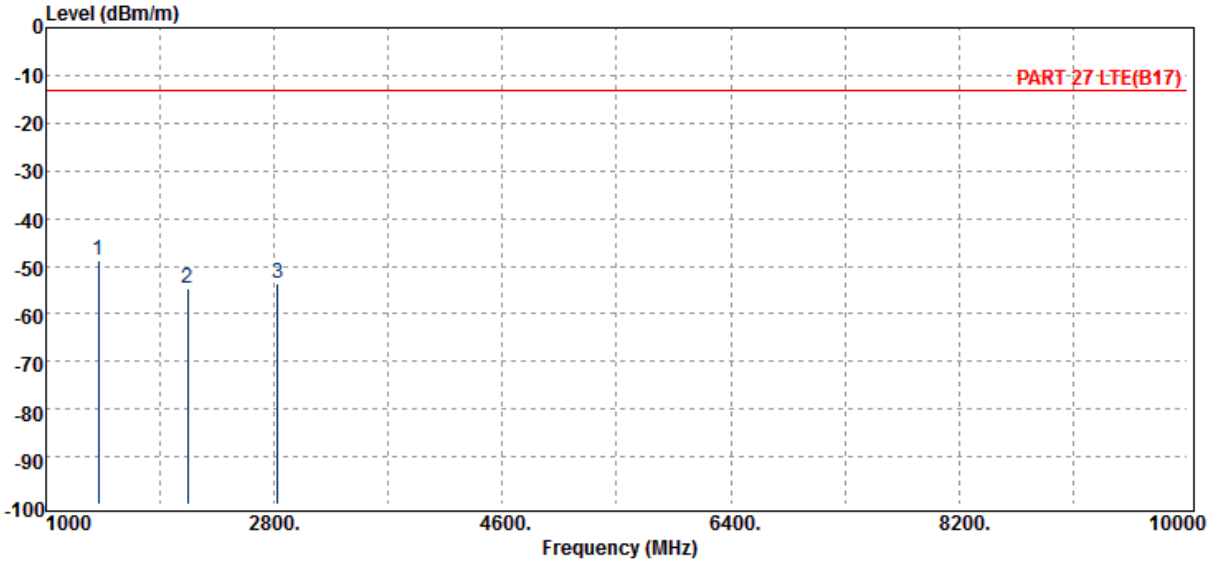
ARFCN	:CH 23755 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1413.00	H	-47.13	-46.03	2.85	-3.94	-13.00	-34.13
2119.50	H	-50.54	-48.46	2.76	-4.84	-13.00	-37.54
2826.00	H	-51.87	-50.54	4.32	-5.65	-13.00	-38.87

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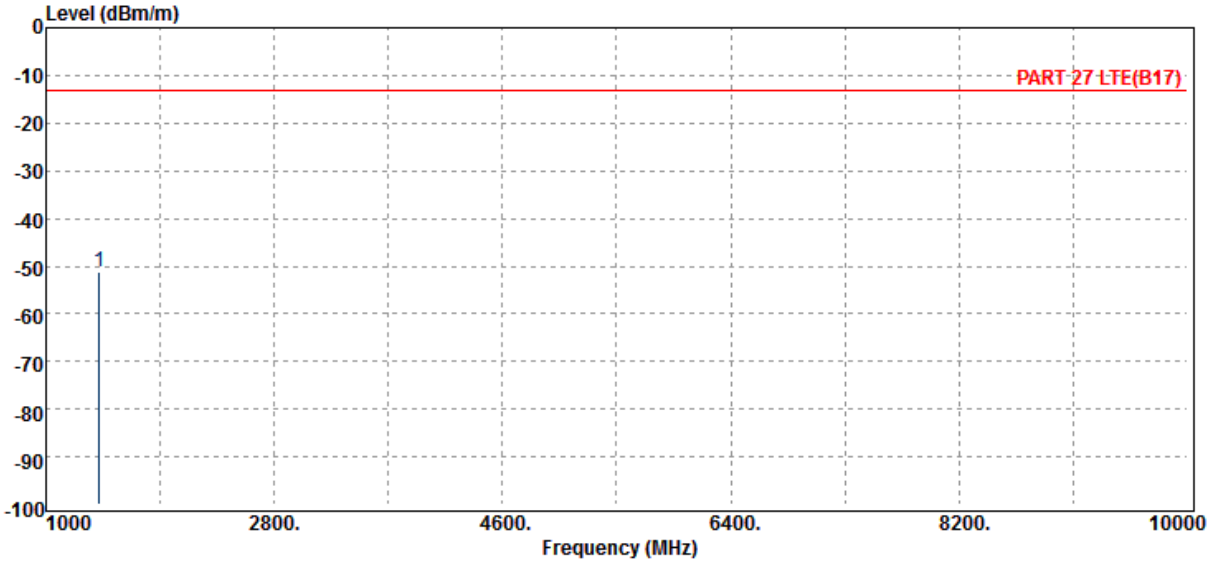
ARFCN	:CH 23755 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1413.00	H	-48.71	-47.61	2.85	-3.94	-13.00	-35.71
2119.50	H	-54.67	-52.60	2.76	-4.84	-13.00	-41.67
2826.00	H	-53.67	-52.34	4.32	-5.65	-13.00	-40.67

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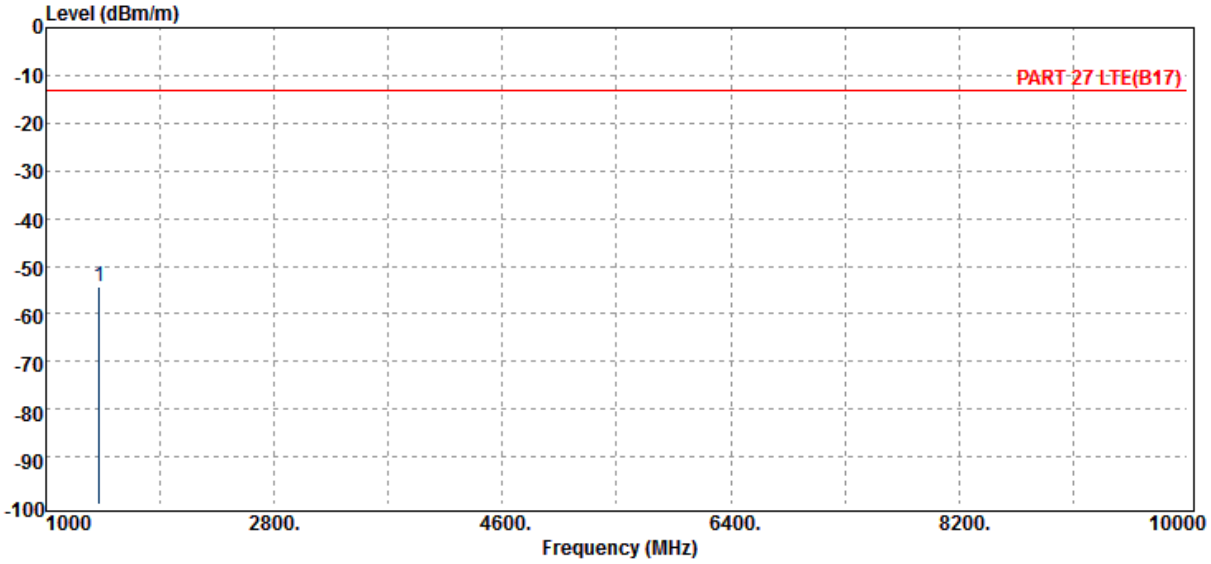
ARFCN	:CH 23790 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1420.00	H	-51.07	-50.01	2.89	-3.96	-13.00	-38.07

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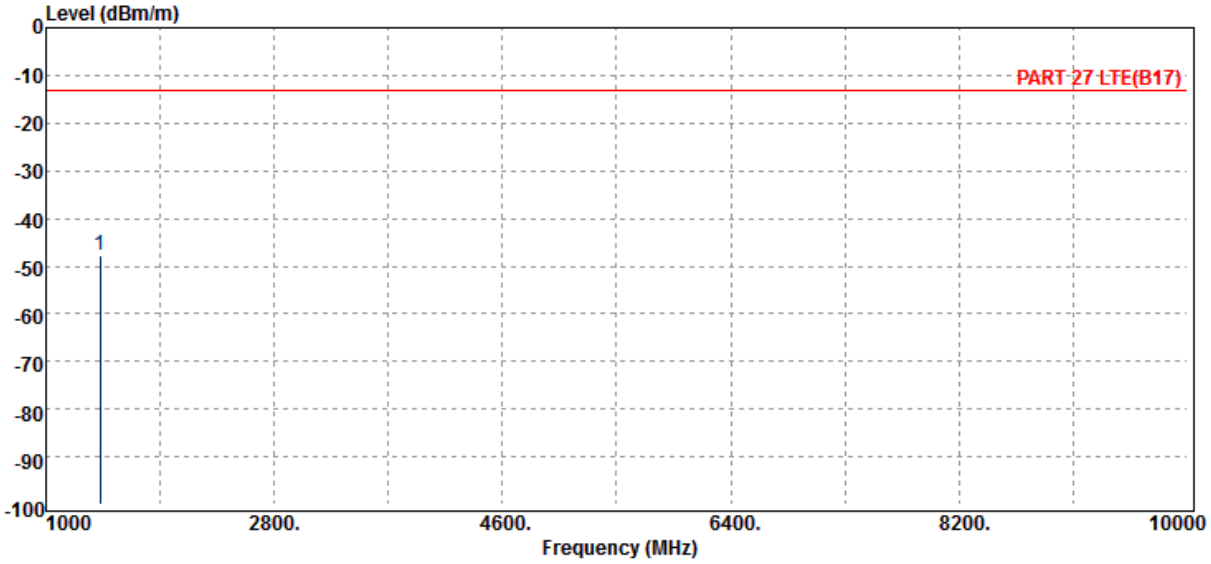
ARFCN	:CH 23790 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1420.00	H	-54.20	-53.13	2.89	-3.96	-13.00	-41.20

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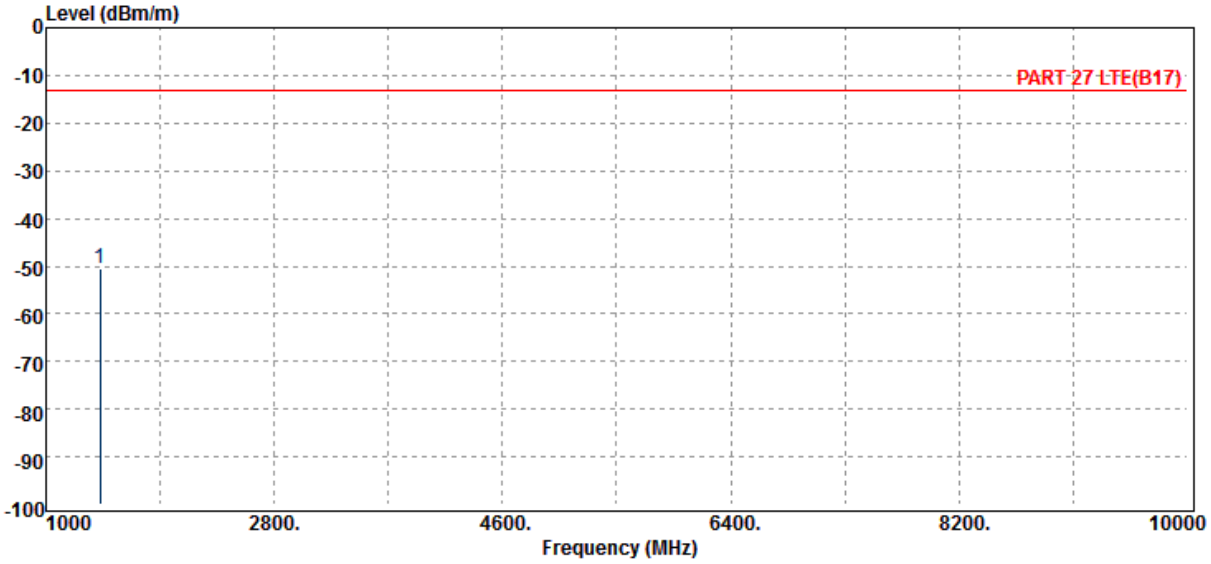
ARFCN	:CH 23825 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1427.00	H	-47.59	-46.55	2.93	-3.97	-13.00	-34.59

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ARFCN	:CH 23825 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

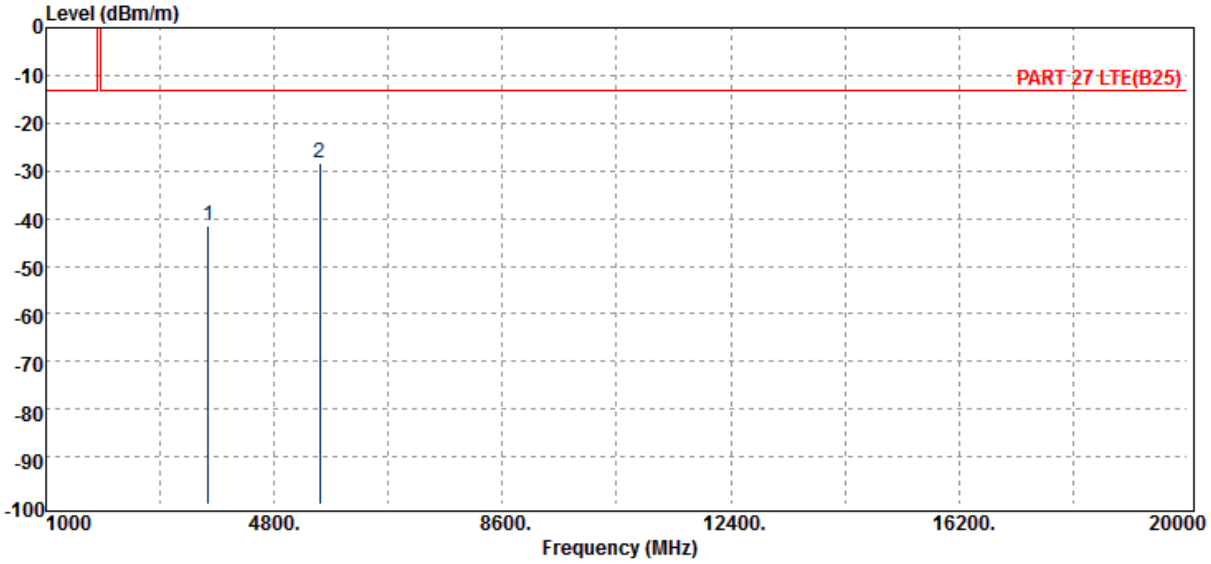


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1427.00	H	-50.35	-49.31	2.93	-3.97	-13.00	-37.35

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 25 (The Worst Case)

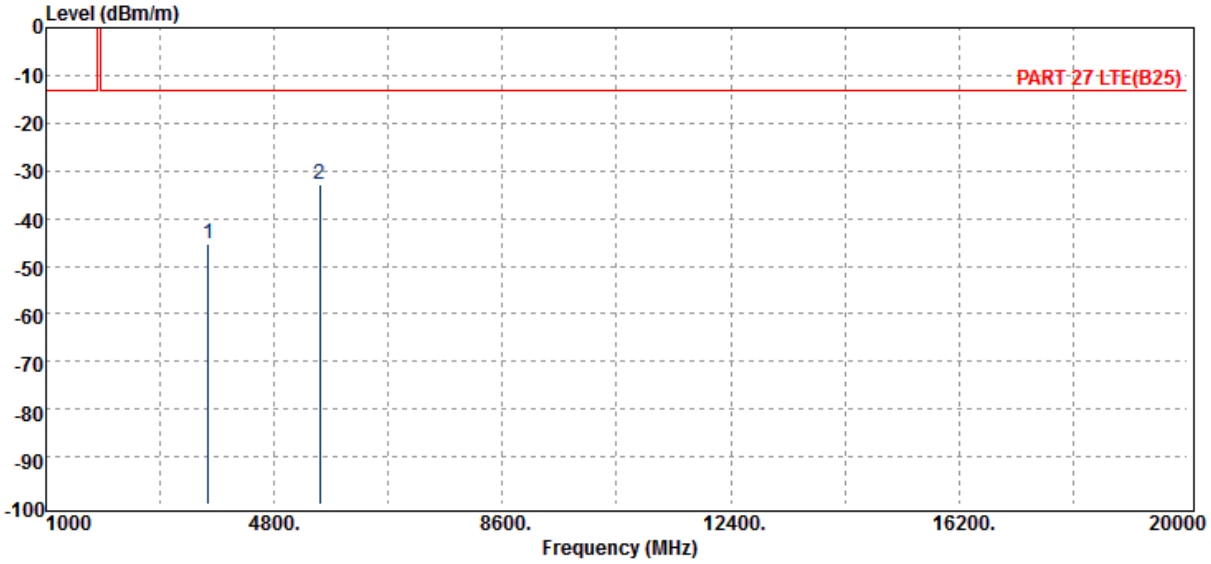
ARFCN	:CH 26047 16QAM BW 1.4 RB1 5	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3701.40	H	-41.54	-43.09	8.43	-6.88	-13.00	-28.54
5552.10	H	-28.30	-29.86	10.10	-8.55	-13.00	-15.30

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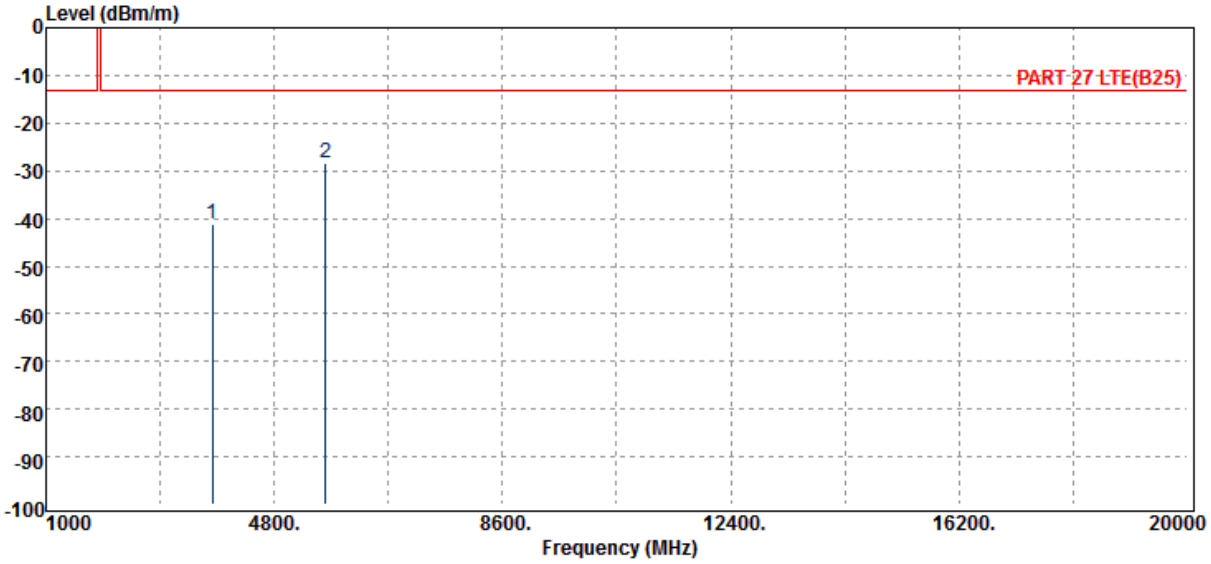
ARFCN	:CH 26047 16QAM BW 1.4 RB1 5	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3701.40	H	-45.49	-47.03	8.43	-6.88	-13.00	-32.49
5552.10	H	-32.82	-34.38	10.10	-8.55	-13.00	-19.82

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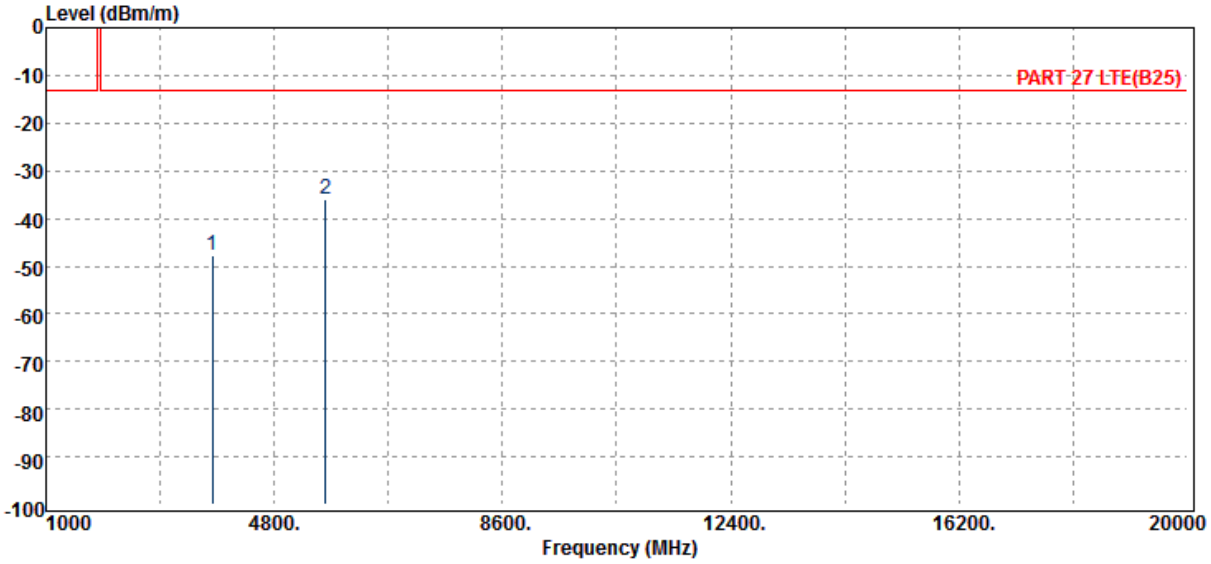
ARFCN	:CH 26365 16QAM BW 1.4 RB1 5	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3765.00	H	-41.18	-42.61	8.46	-7.03	-13.00	-28.18
5647.50	H	-28.48	-30.00	10.11	-8.59	-13.00	-15.48

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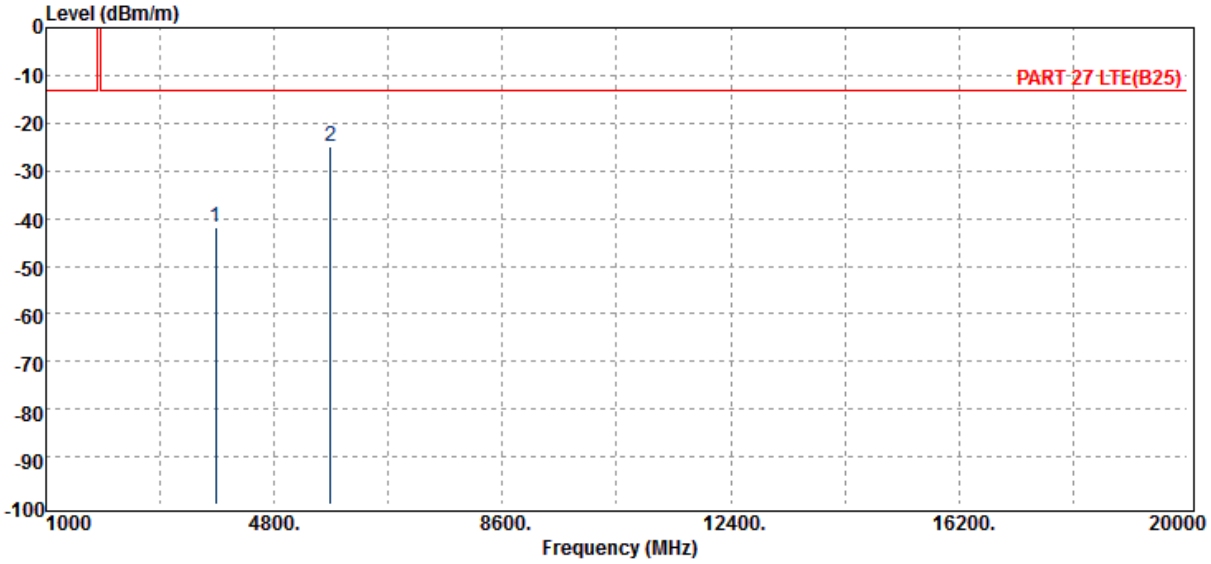
ARFCN	:CH 26365 16QAM BW 1.4 RB1 5	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3765.00	H	-47.67	-49.10	8.46	-7.03	-13.00	-34.67
5647.50	H	-35.89	-37.42	10.11	-8.59	-13.00	-22.89

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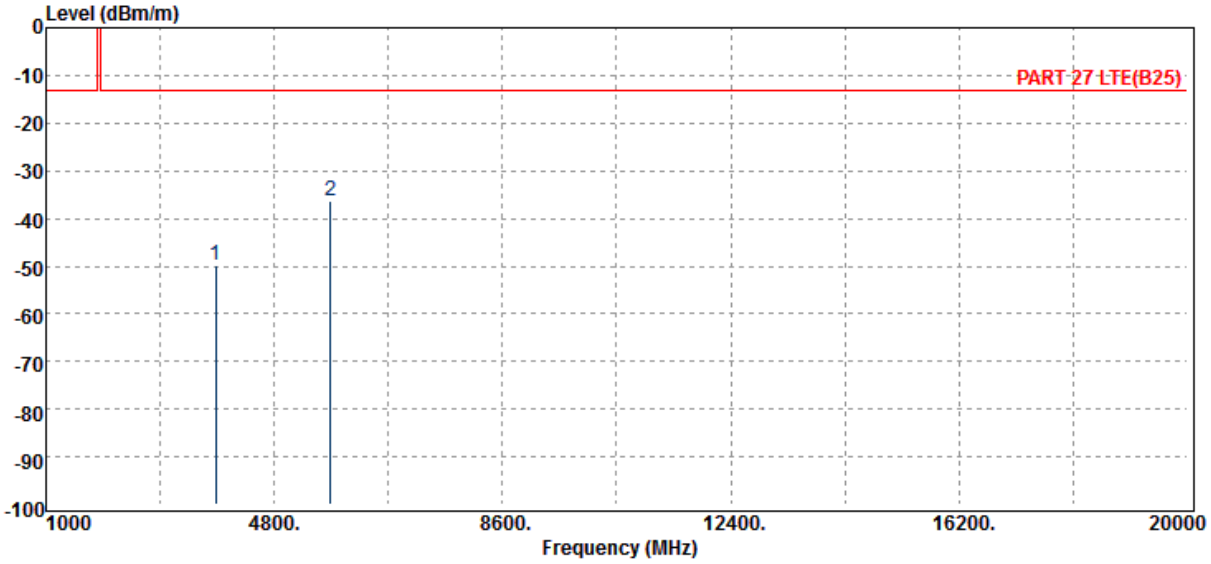
ARFCN	:CH 26683 16QAM BW 1.4 RB1 5	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1914.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3828.60	H	-41.77	-43.23	8.50	-7.05	-13.00	-28.77
5742.90	H	-25.03	-26.48	10.12	-8.67	-13.00	-12.03

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ARFCN	:CH 26683 16QAM BW 1.4 RB1 5	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1914.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



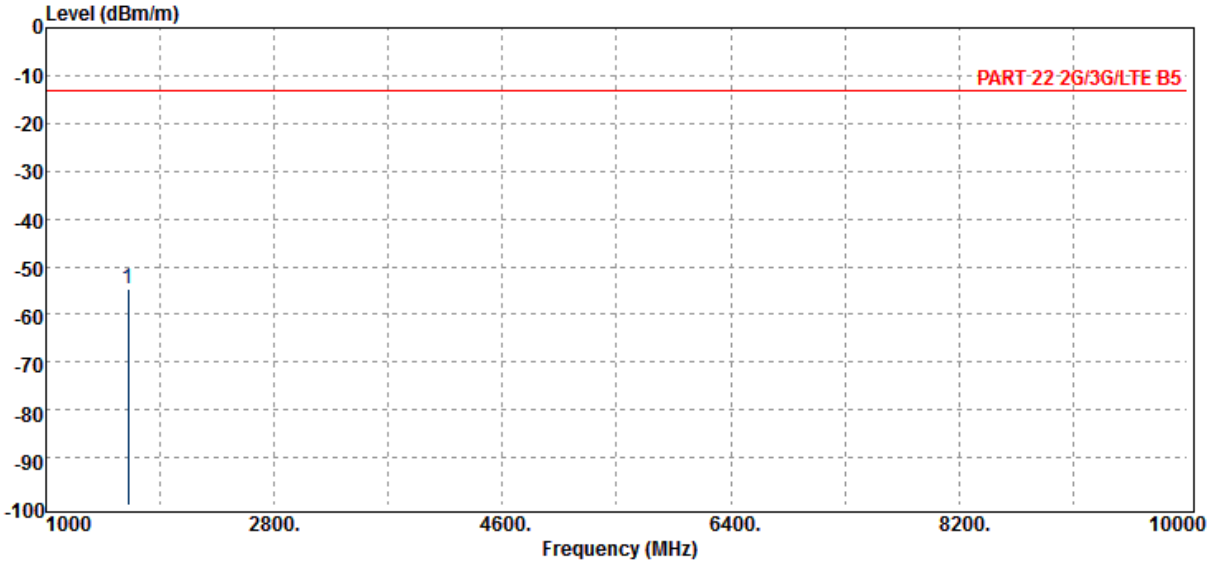
Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3828.60	H	-49.95	-51.41	8.50	-7.05	-13.00	-36.95
5742.90	H	-36.21	-37.67	10.12	-8.67	-13.00	-23.21

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***Antenna Part No.: TG.30.8111 Apex**

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

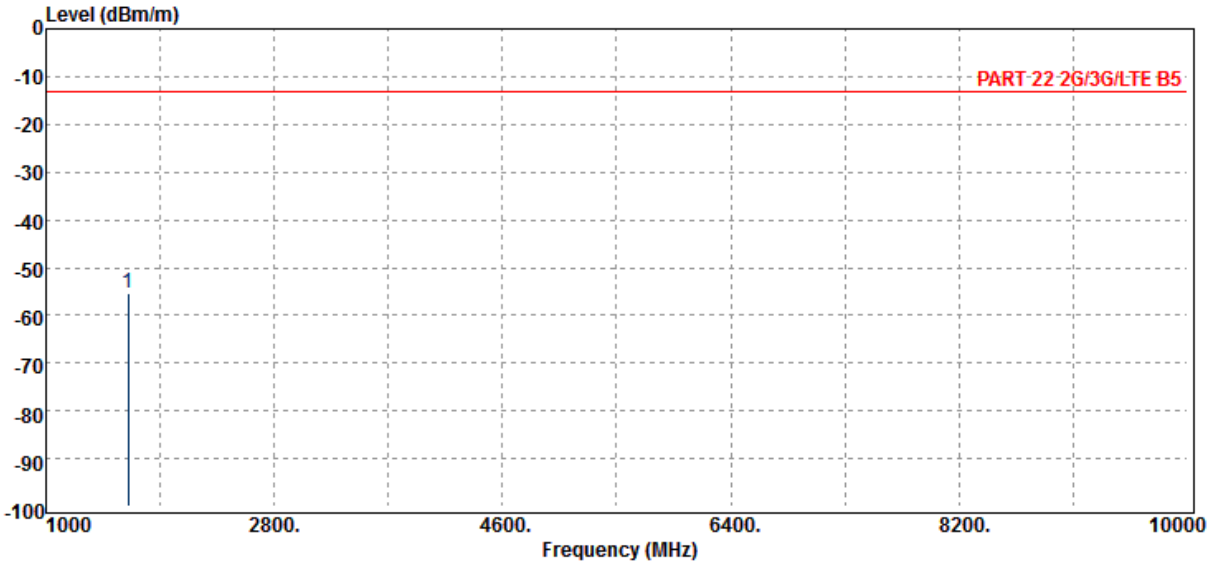
ARFCN	:CH 128	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1648.40	H	-54.72	-53.56	3.05	-4.21	-13.00	-41.72

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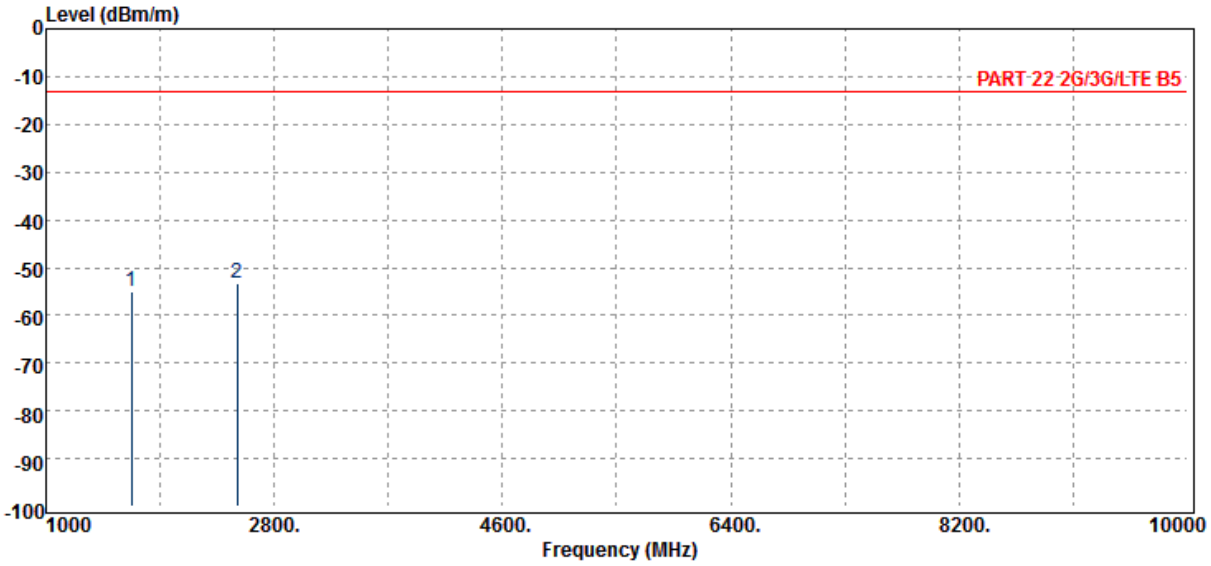
ARFCN	:CH 128	Test Date	:2015-08-28
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 53 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1648.40	H	-55.50	-54.35	3.05	-4.21	-13.00	-42.50

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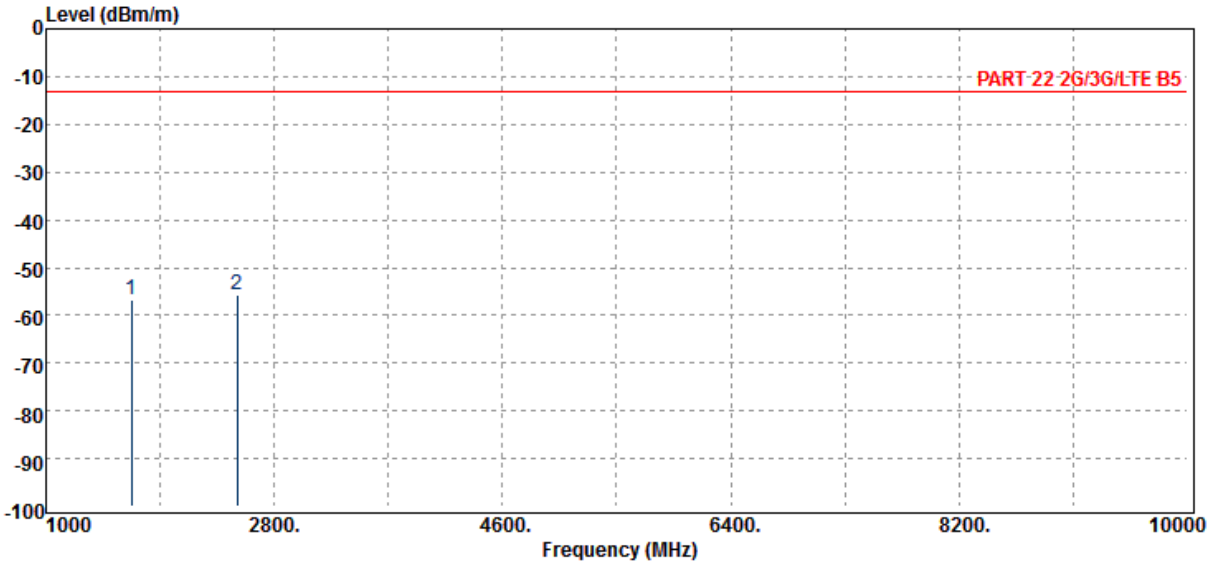
ARFCN	:CH 190	Test Date	:2015-08-28
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-55.05	-53.80	3.01	-4.26	-13.00	-42.05
2509.80	H	-53.12	-51.44	3.67	-5.35	-13.00	-40.12

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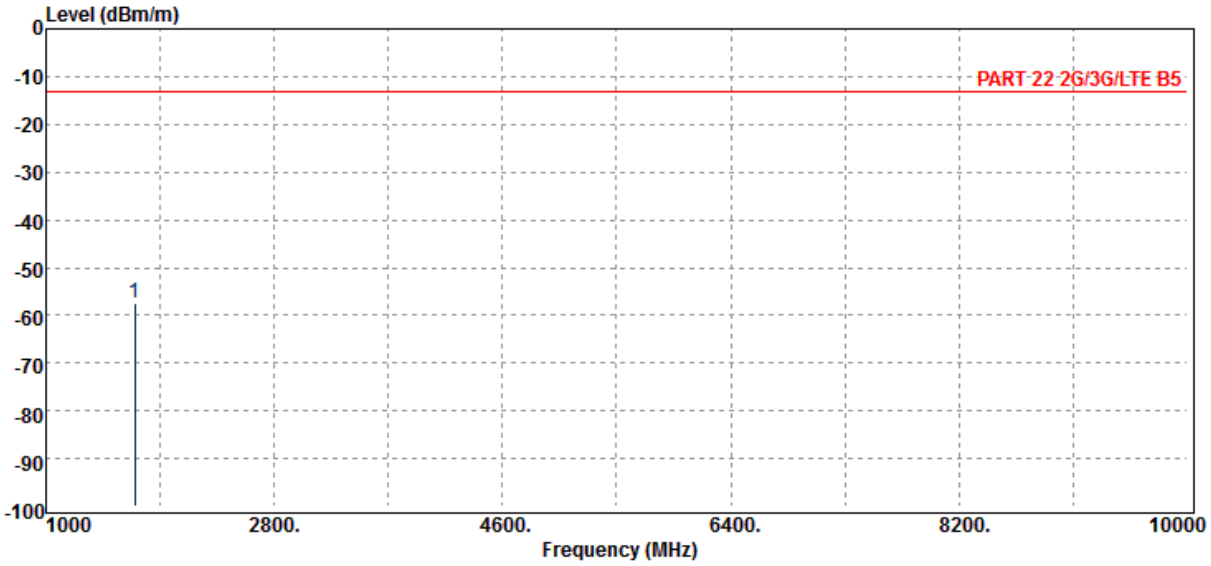
ARFCN	:CH 190	Test Date	:2015-08-28
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-56.58	-55.33	3.01	-4.26	-13.00	-43.58
2509.80	H	-55.64	-53.96	3.67	-5.35	-13.00	-42.64

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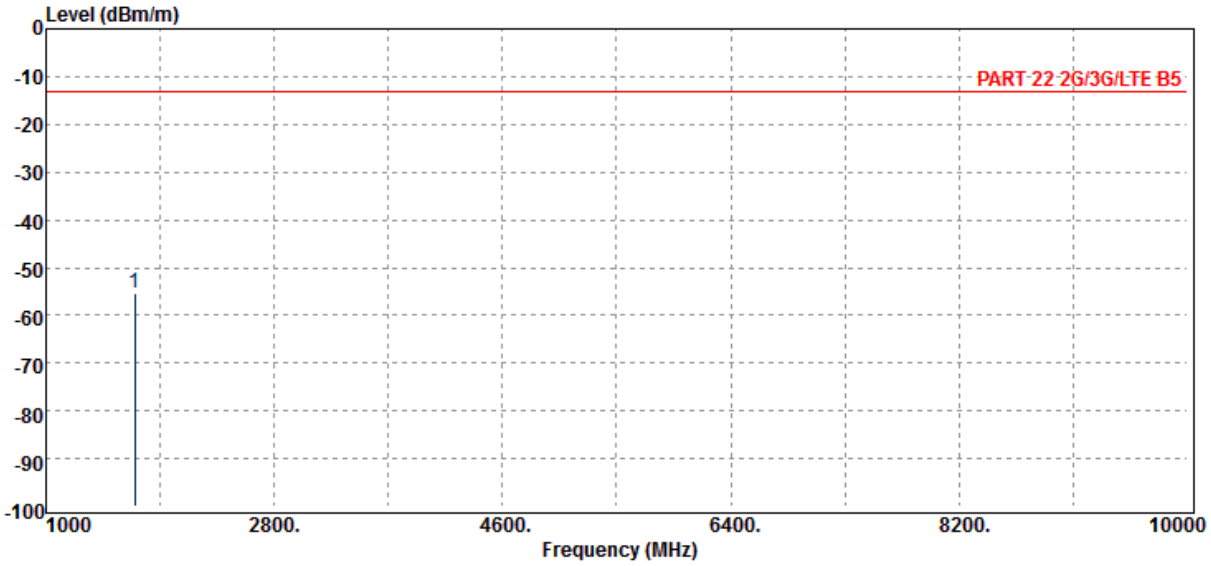
ARFCN	:CH 251	Test Date	:2015-08-28
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1697.60	H	-57.41	-56.09	2.96	-4.28	-13.00	-44.41

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ARFCN	:CH 251	Test Date	:2015-08-28
Operation Band	:GSM 850	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

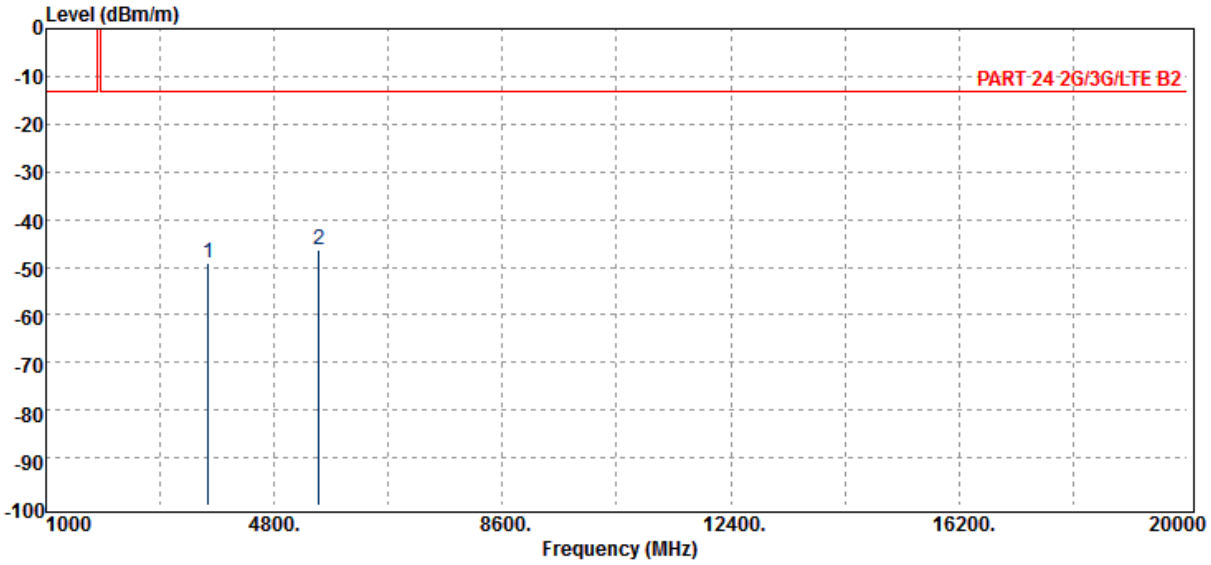


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1697.60	H	-55.49	-54.17	2.96	-4.28	-13.00	-42.49

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

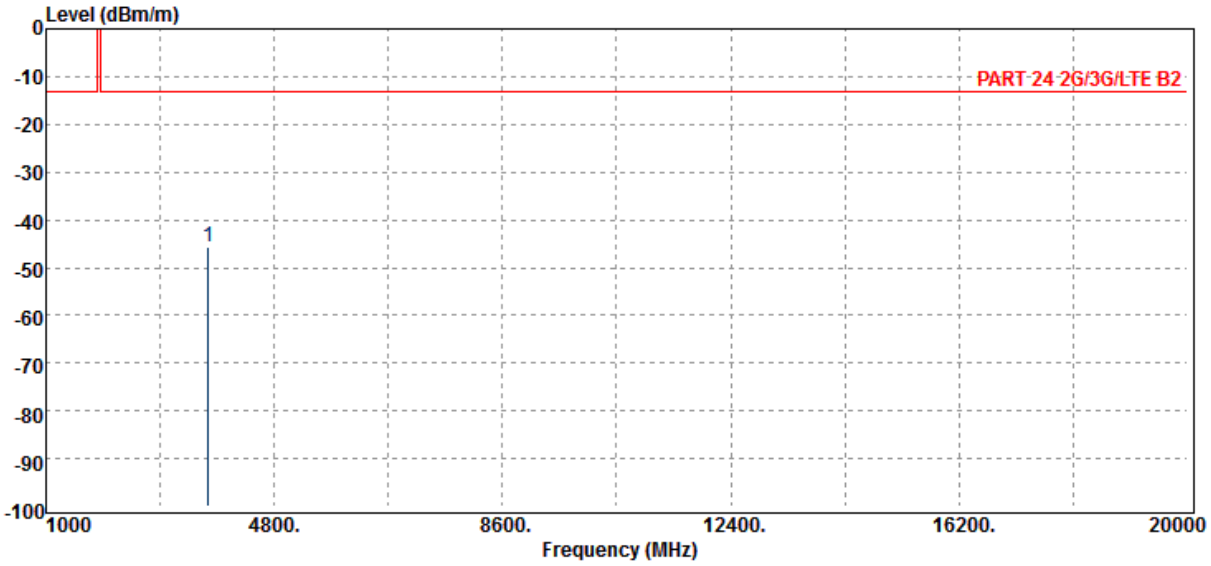
ARFCN	:CH 512	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3700.40	H	-49.04	-50.59	8.43	-6.88	-13.00	-36.04
5550.60	H	-46.25	-47.80	10.10	-8.55	-13.00	-33.25

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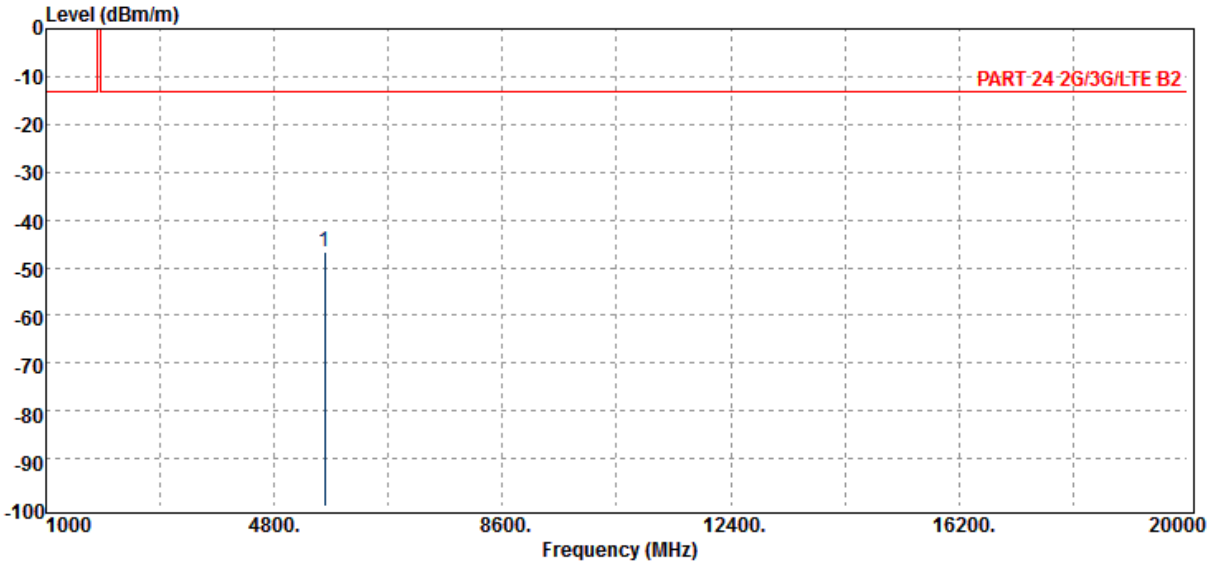
ARFCN	:CH 512	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3700.40	H	-45.56	-47.11	8.43	-6.88	-13.00	-32.56

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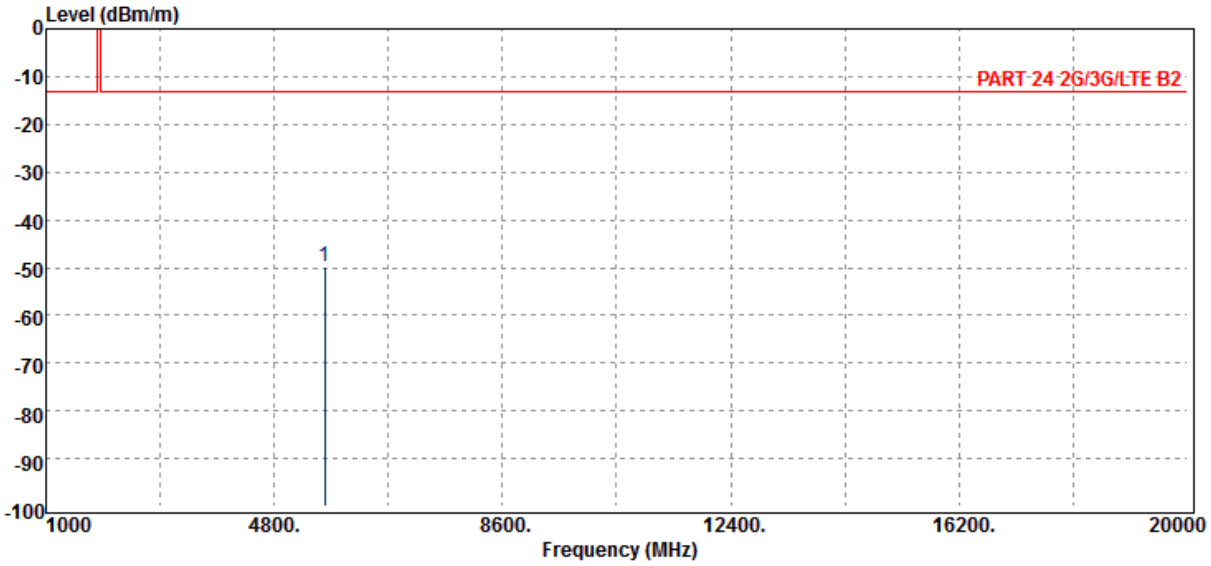
ARFCN	:CH 661	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
5640.00	H	-46.57	-48.09	10.11	-8.59	-13.00	-33.57

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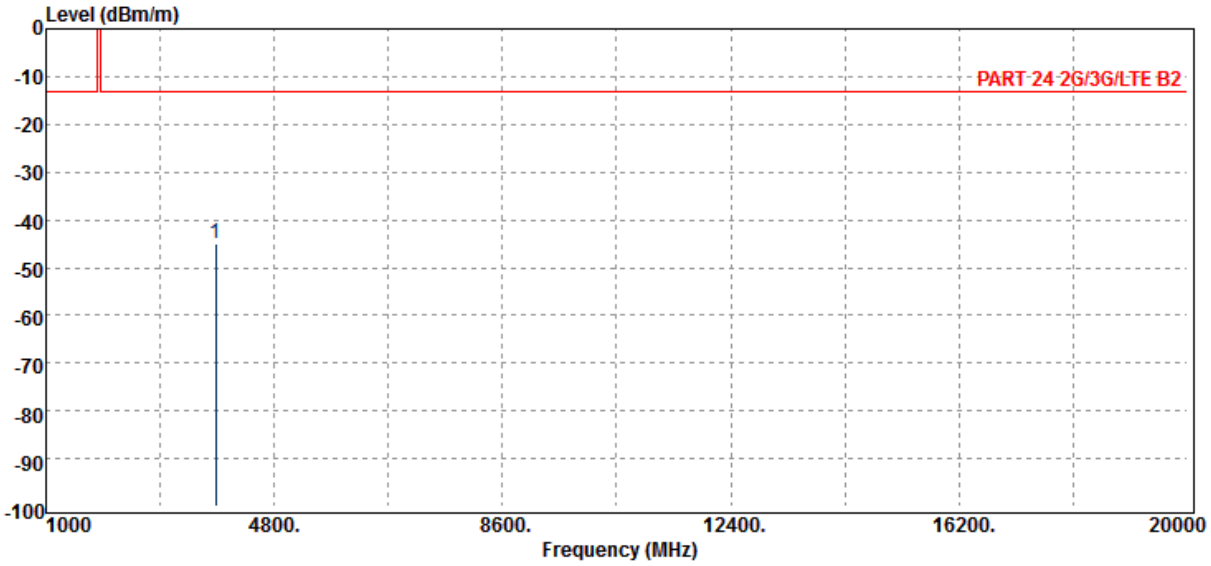
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Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
5640.00	H	-49.75	-51.27	10.11	-8.59	-13.00	-36.75

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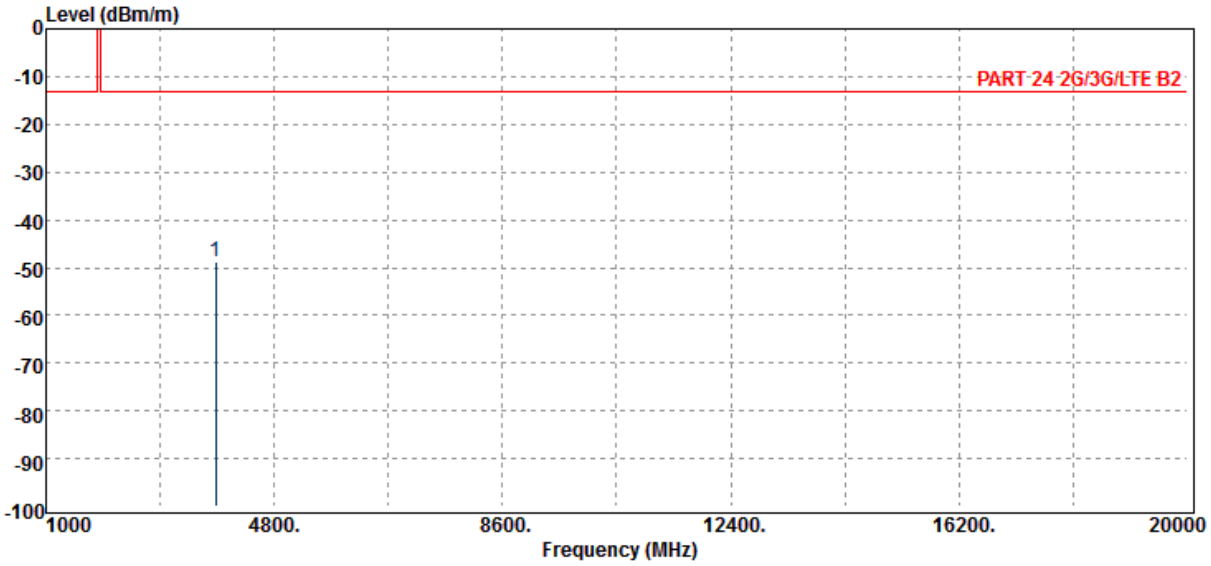
ARFCN	:CH 810	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3819.60	H	-44.97	-46.41	8.50	-7.05	-13.00	-31.97

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ARFCN	:CH 810	Test Date	:2015-08-28
Operation Band	:GPRS 1900	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

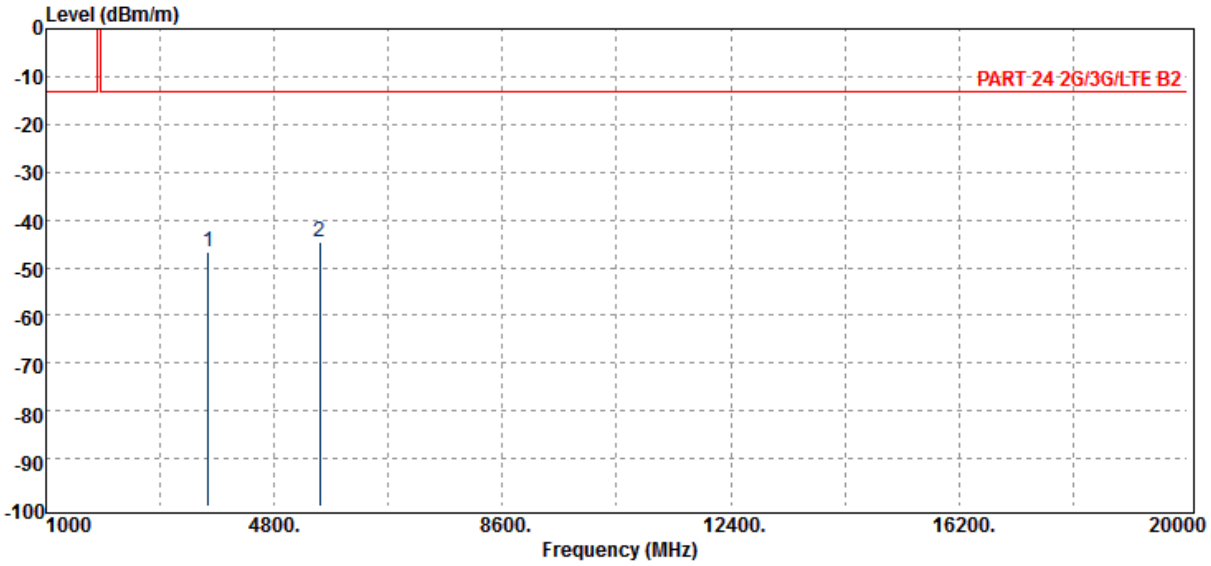


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3819.60	H	-48.69	-50.14	8.50	-7.05	-13.00	-35.69

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Radiated Spurious Emission Measurement Result: HSDPA II Mode

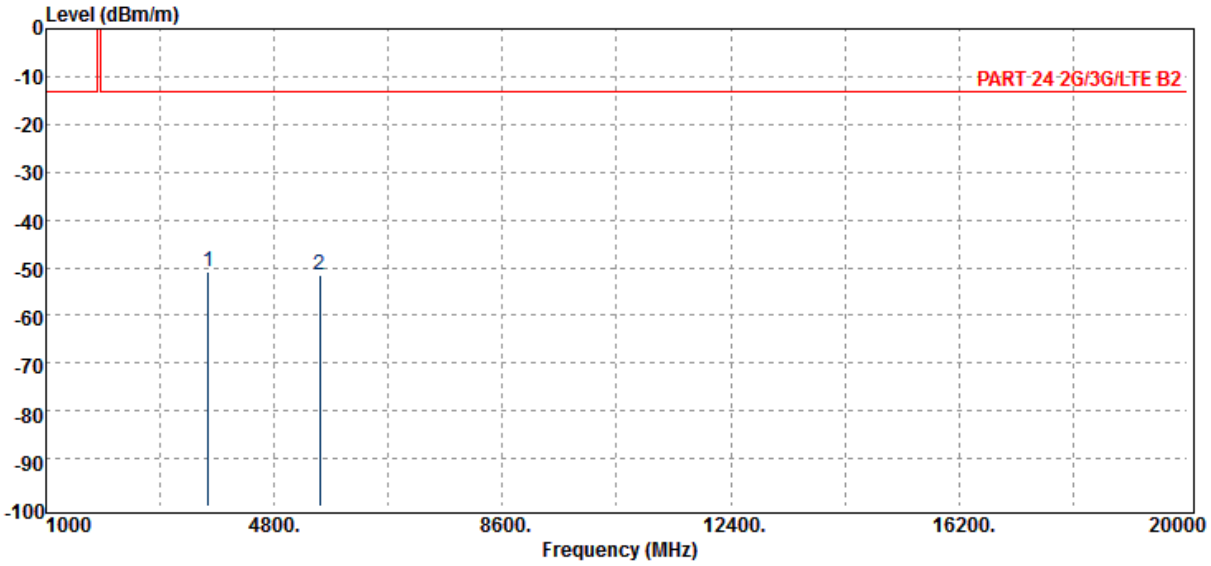
ARFCN	:CH 9262	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3704.80	H	-46.77	-48.31	8.43	-6.89	-13.00	-33.77
5557.20	H	-44.72	-46.28	10.10	-8.54	-13.00	-31.72

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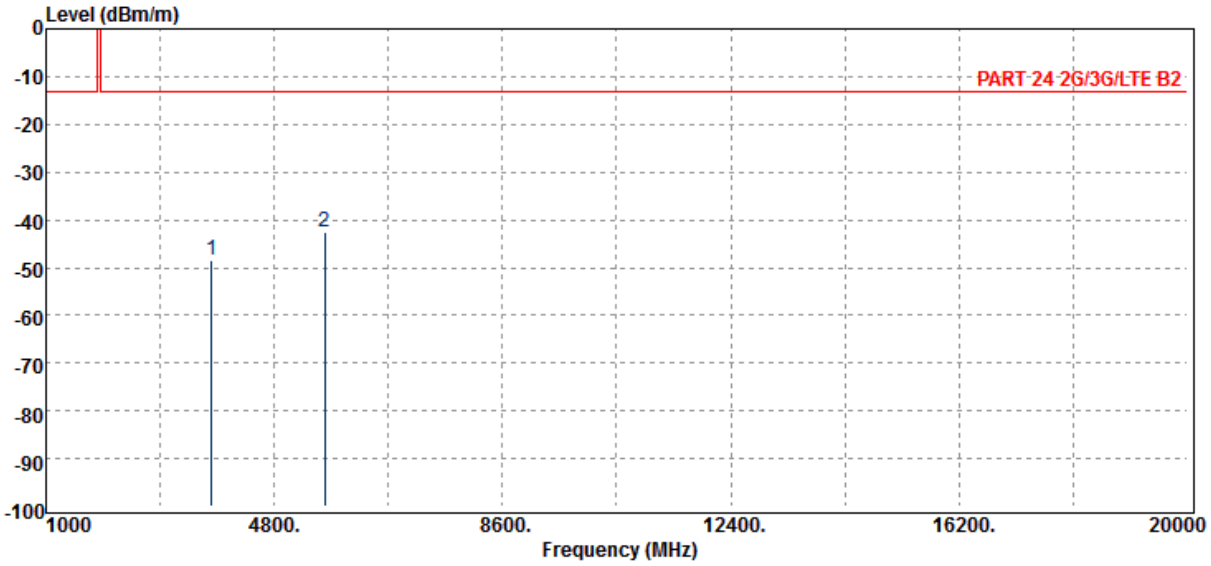
ARFCN	:CH 9262	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3704.80	H	-50.80	-52.34	8.43	-6.89	-13.00	-37.80
5557.20	H	-51.68	-53.24	10.10	-8.54	-13.00	-38.68

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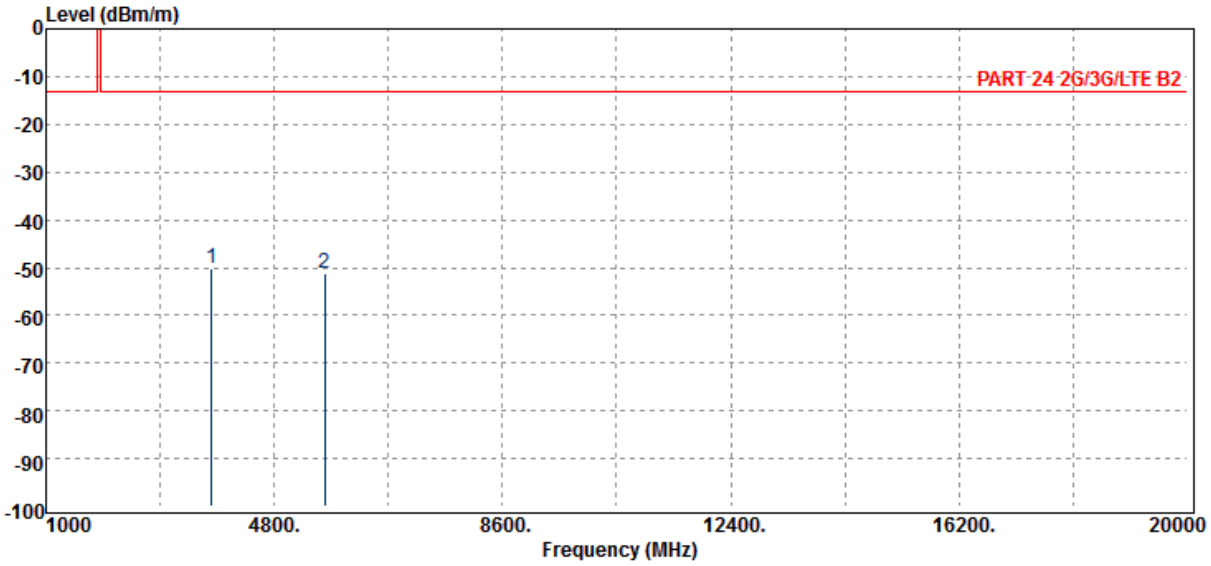
ARFCN	:CH 9400	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-48.43	-49.87	8.46	-7.02	-13.00	-35.43
5640.00	H	-42.40	-43.92	10.11	-8.59	-13.00	-29.40

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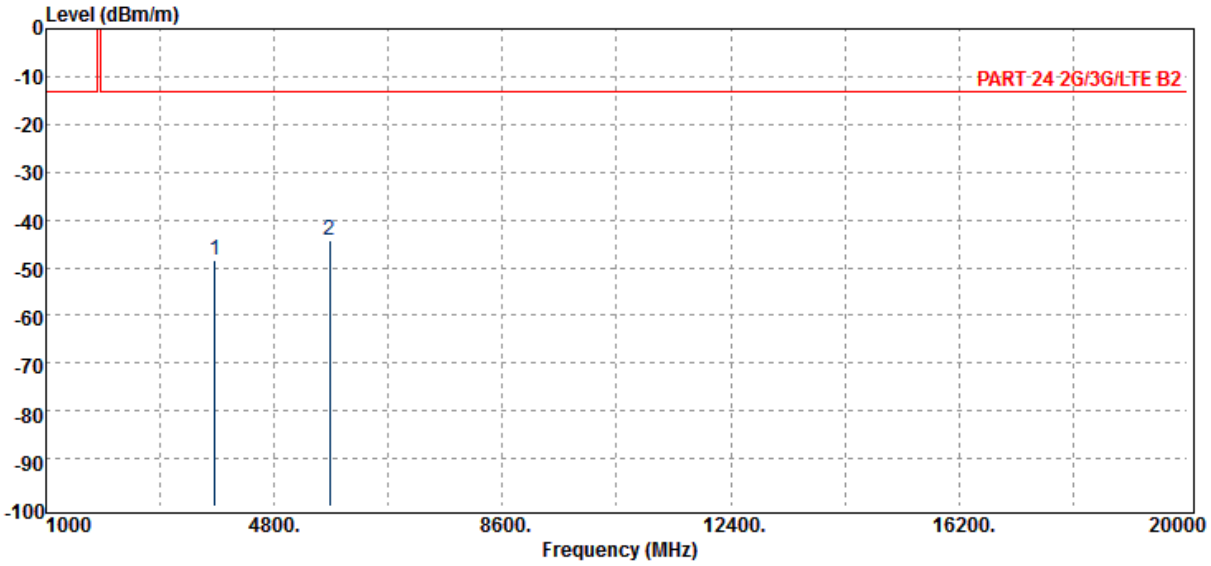
ARFCN	:CH 9400	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-50.33	-51.77	8.46	-7.02	-13.00	-37.33
5640.00	H	-51.27	-52.79	10.11	-8.59	-13.00	-38.27

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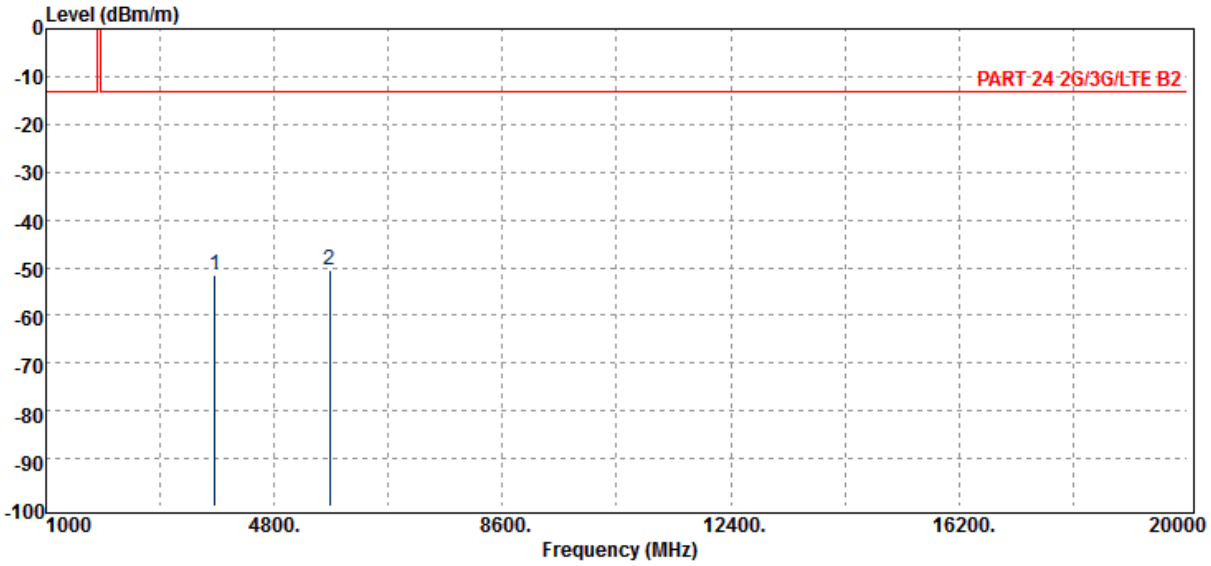
ARFCN	:CH 9538	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3815.20	H	-48.49	-49.93	8.49	-7.05	-13.00	-35.49
5722.80	H	-44.30	-45.79	10.12	-8.63	-13.00	-31.30

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ARFCN	:CH 9538	Test Date	:2015-08-28
Operation Band	:HSDPA B2	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

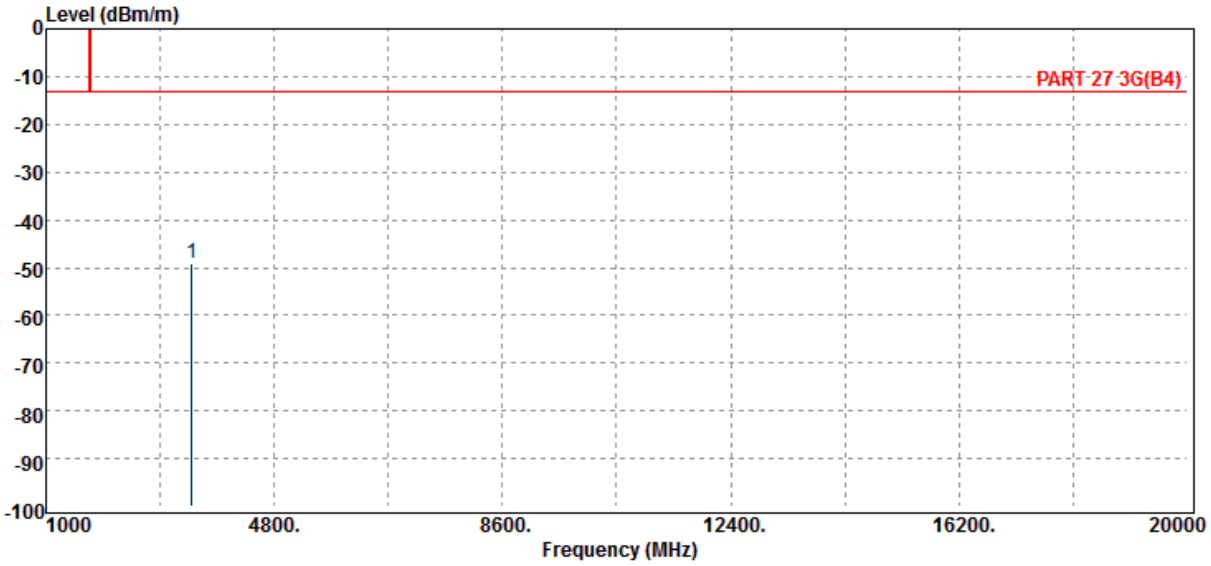


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3815.20	H	-51.39	-52.83	8.49	-7.05	-13.00	-38.39
5722.80	H	-50.62	-52.11	10.12	-8.63	-13.00	-37.62

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

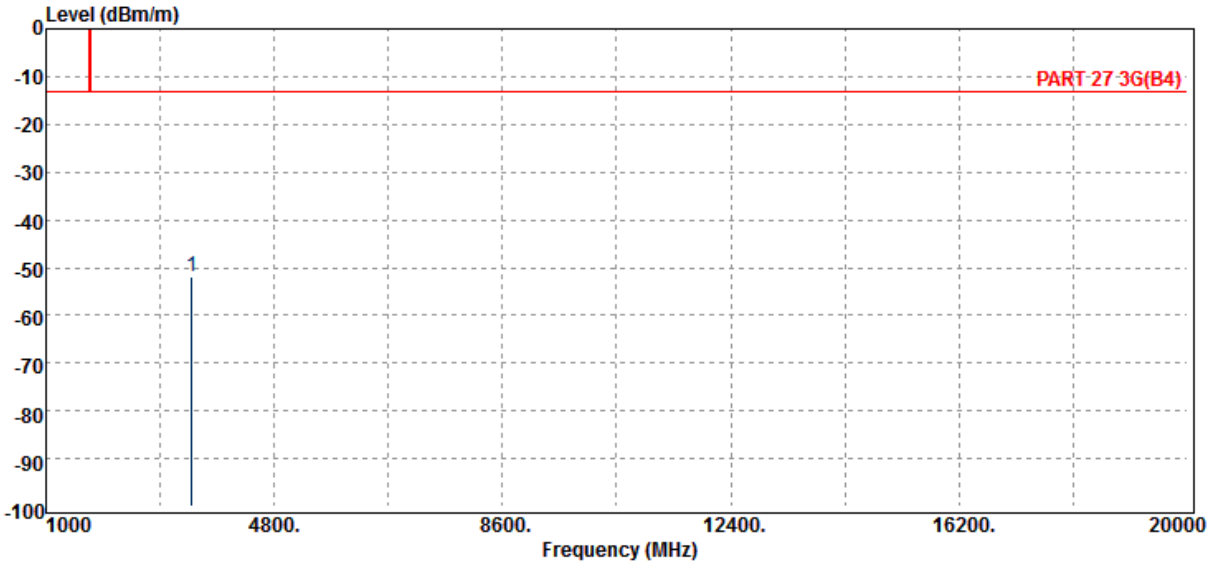
ARFCN	:CH 1312	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3424.80	H	-49.11	-50.65	8.09	-6.54	-13.00	-36.11

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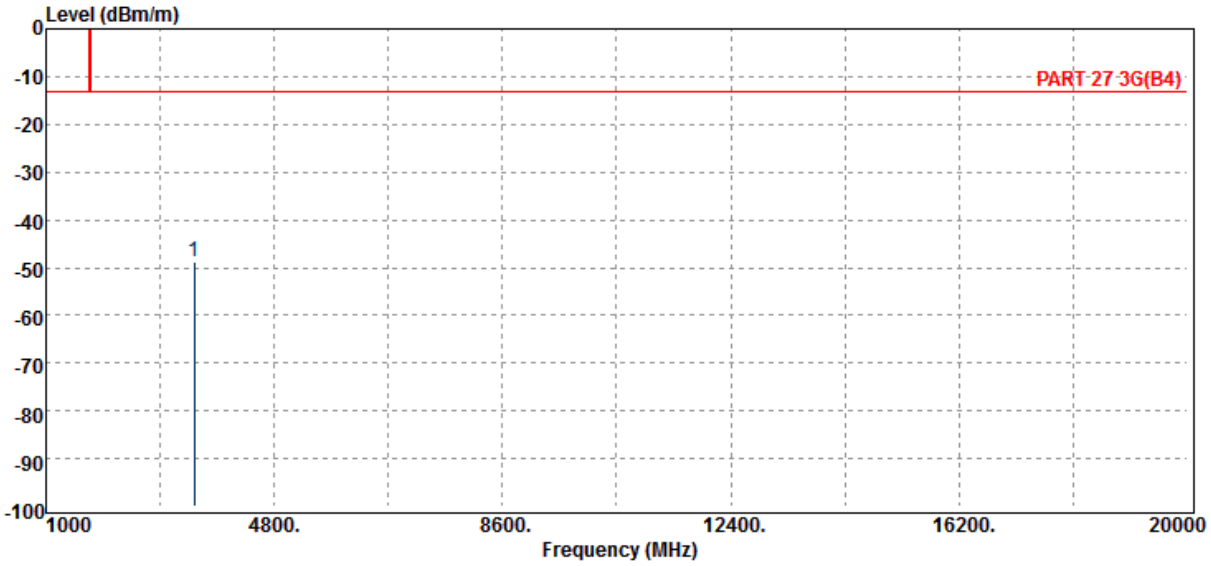
ARFCN	:CH 1312	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3424.80	H	-52.02	-53.57	8.09	-6.54	-13.00	-39.02

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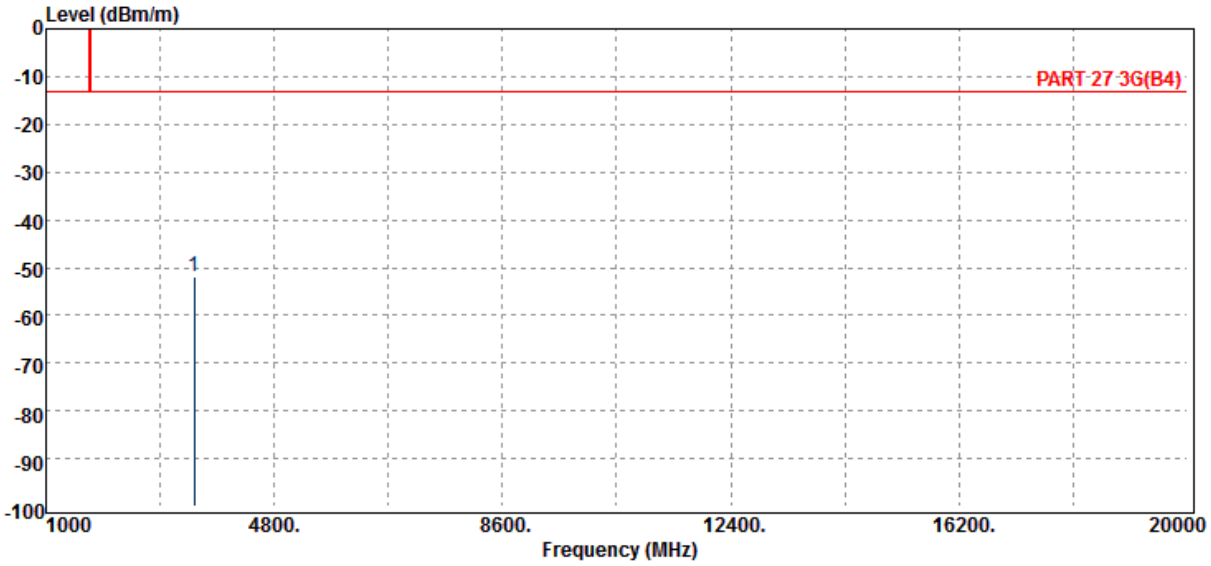
ARFCN	:CH 1413	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.20	H	-48.95	-50.62	8.20	-6.53	-13.00	-35.95

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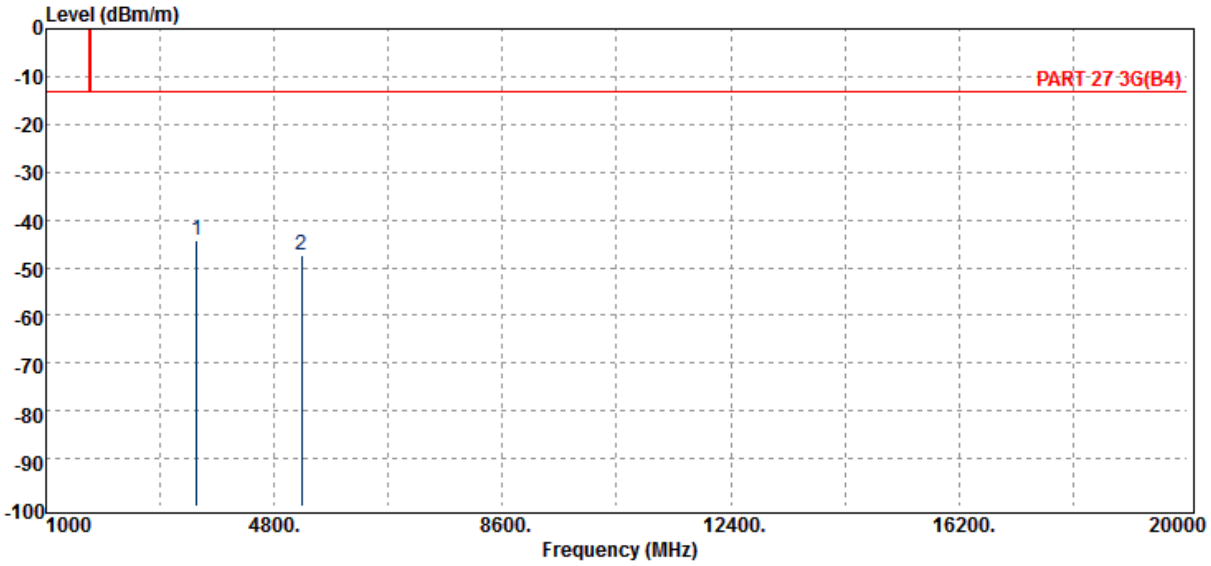
ARFCN	:CH 1413	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.20	H	-51.91	-53.57	8.20	-6.53	-13.00	-38.91

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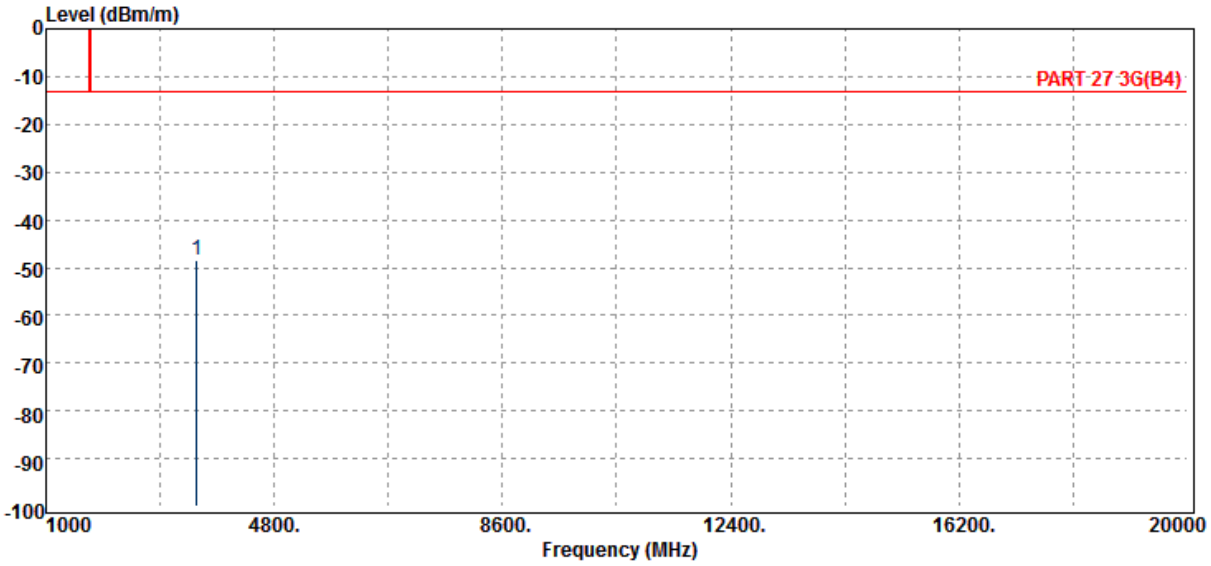
ARFCN	:CH 1513	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.20	H	-44.30	-45.93	8.30	-6.68	-13.00	-31.30
5257.80	H	-47.27	-48.65	9.96	-8.57	-13.00	-34.27

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ARFCN	:CH 1513	Test Date	:2015-08-28
Operation Band	:HSDPA B4	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

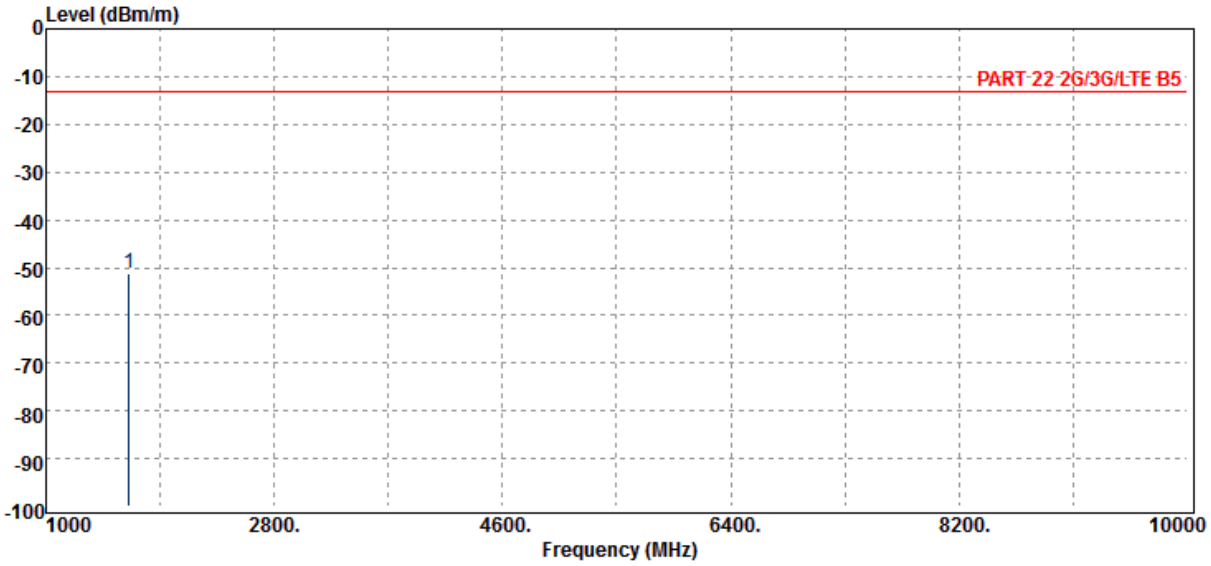


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.20	H	-48.36	-49.98	8.30	-6.68	-13.00	-35.36

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Radiated Spurious Emission Measurement Result: HSDPA V Mode

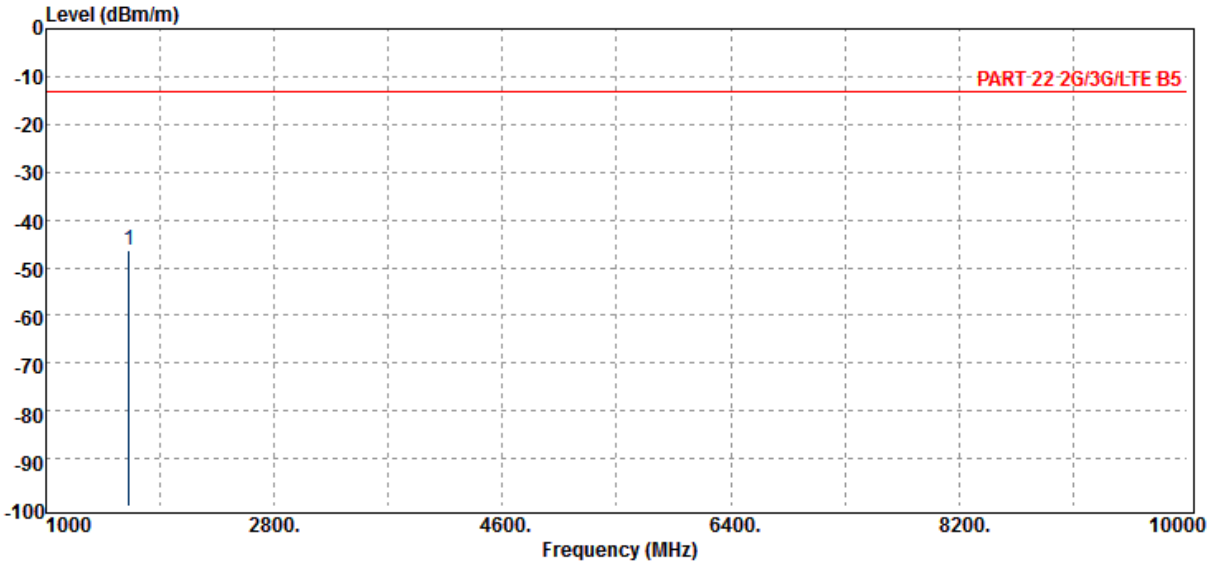
ARFCN	:CH 4132	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1652.80	H	-51.16	-49.99	3.05	-4.22	-13.00	-38.16

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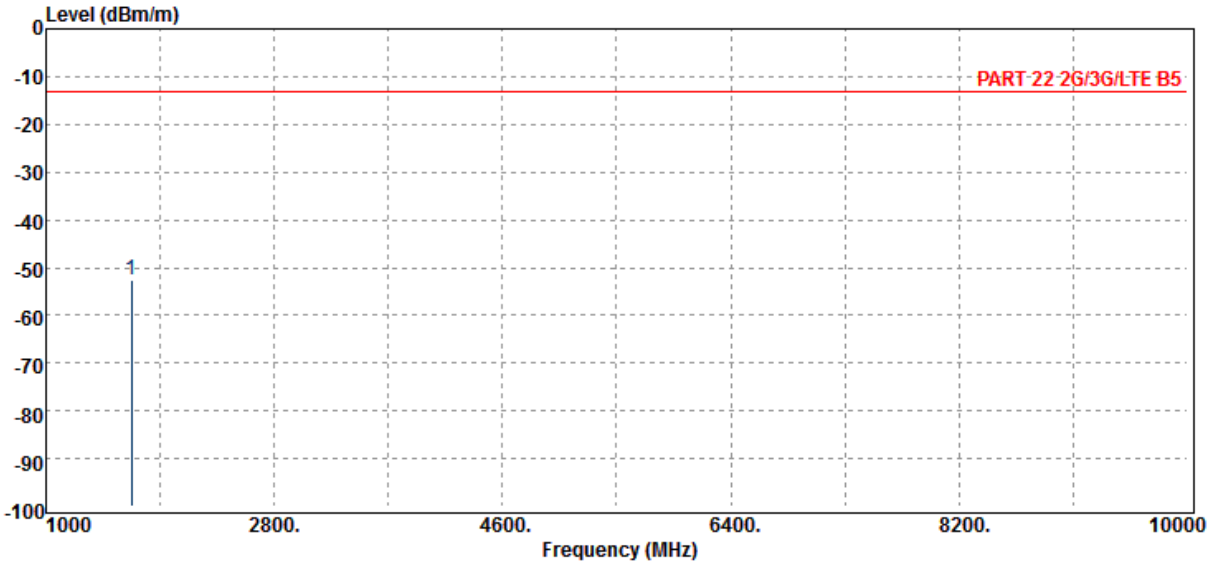
ARFCN	:CH 4132	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1652.80	H	-46.47	-45.29	3.05	-4.22	-13.00	-33.47

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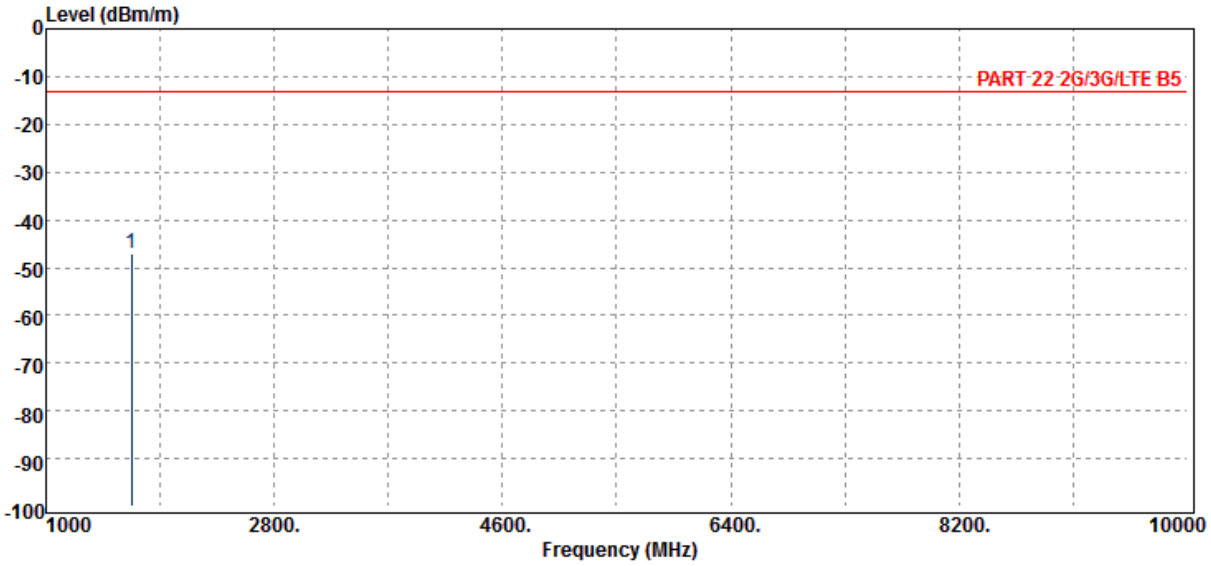
ARFCN	:CH 4183	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-52.62	-51.37	3.01	-4.26	-13.00	-39.62

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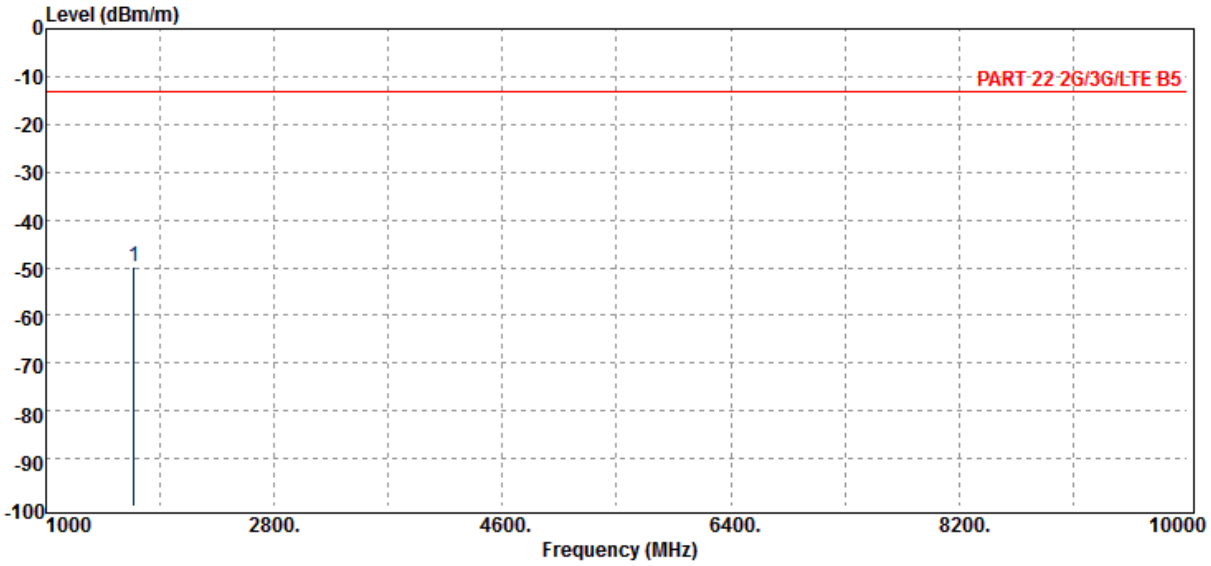
ARFCN	:CH 4183	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.20	H	-46.90	-45.65	3.01	-4.26	-13.00	-33.90

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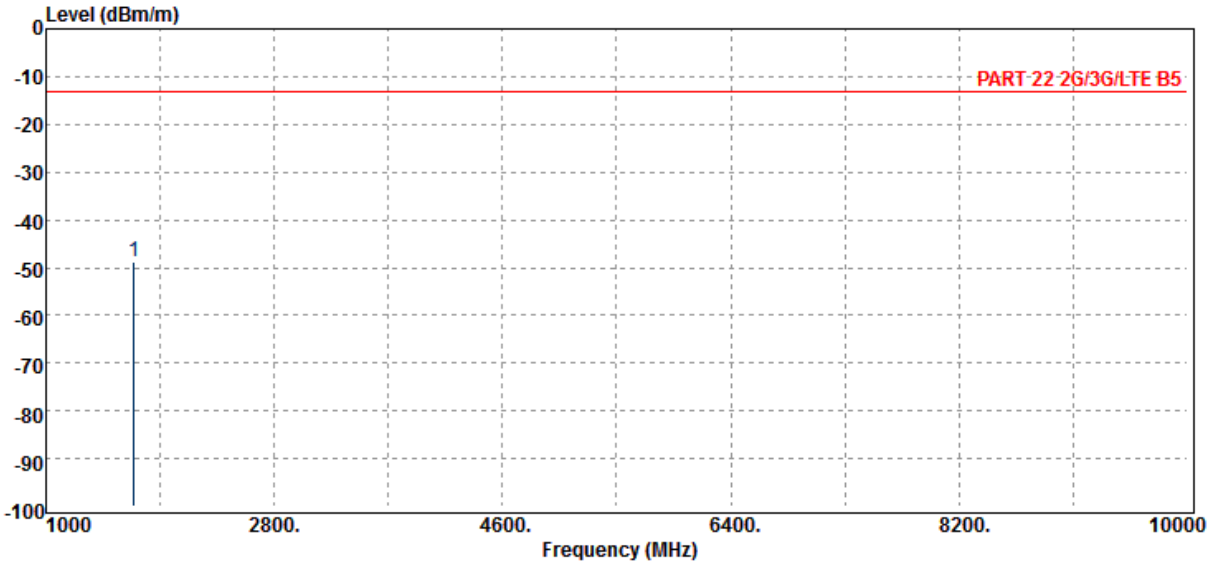
ARFCN	:CH 4233	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1693.20	H	-49.69	-48.38	2.97	-4.27	-13.00	-36.69

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ARFCN	:CH 4233	Test Date	:2015-08-28
Operation Band	:HSDPA B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

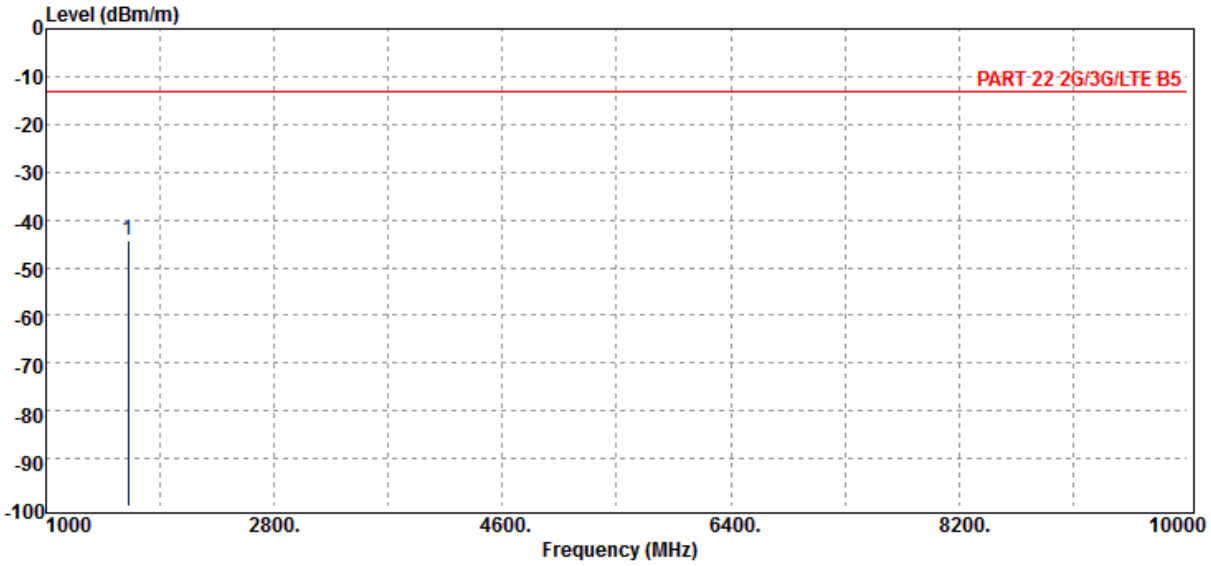


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1693.20	H	-48.77	-47.47	2.97	-4.27	-13.00	-35.77

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Radiated Spurious Emission Measurement Result: CDMA BC0 Mode

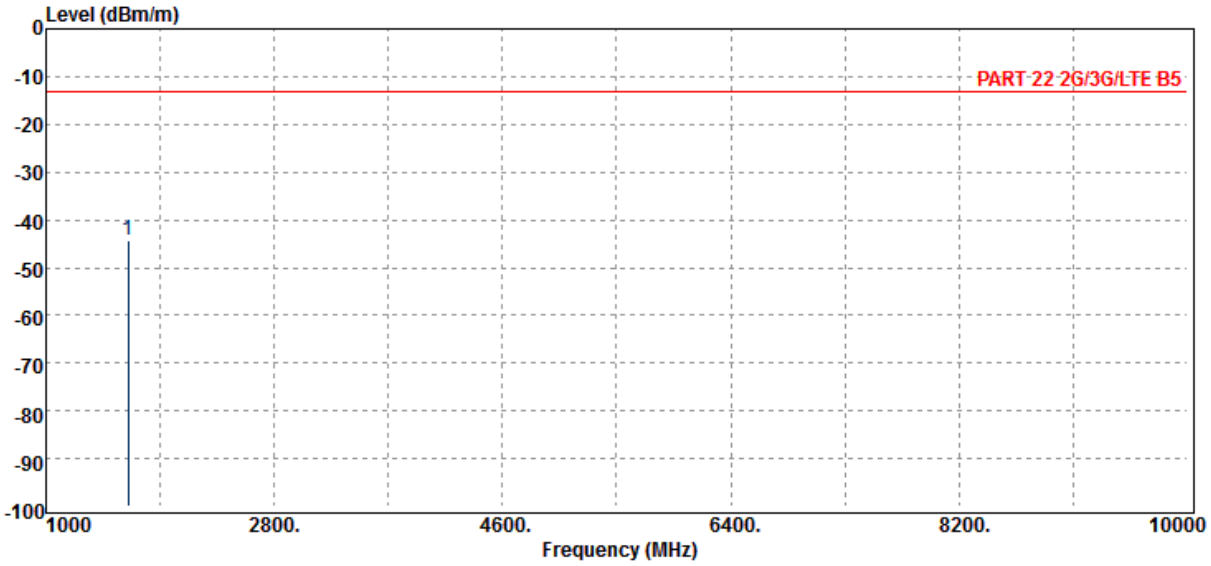
ARFCN	:CH 1013	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1649.40	S	-44.35	-43.19	3.05	-4.21	-13.00	-31.35

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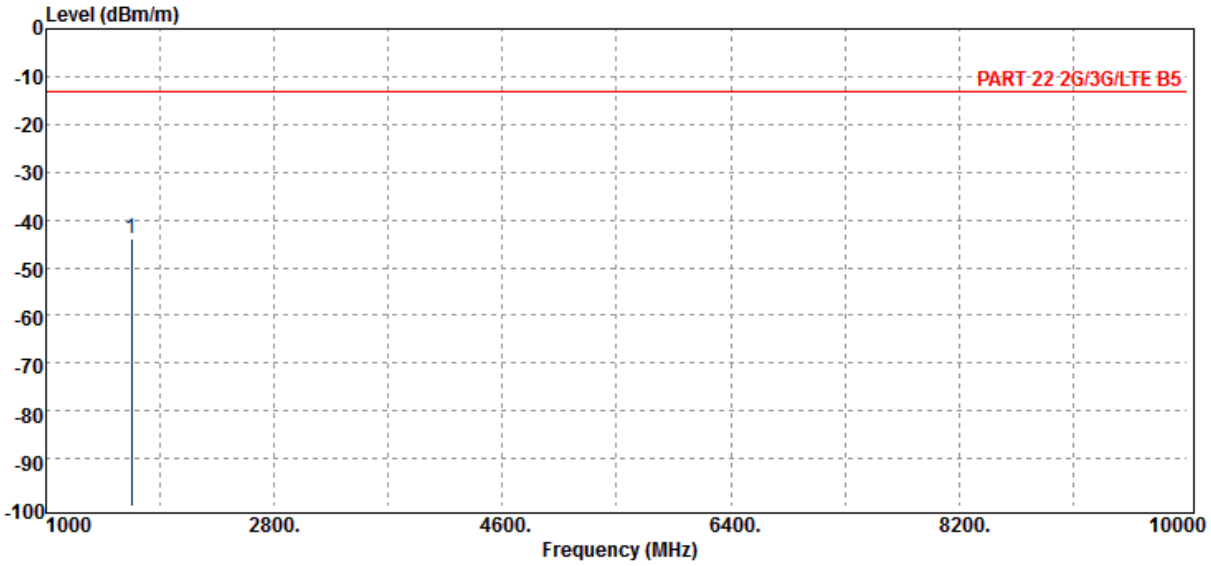
ARFCN	:CH 1013	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:824.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1649.40	S	-44.37	-43.21	3.05	-4.21	-13.00	-31.37

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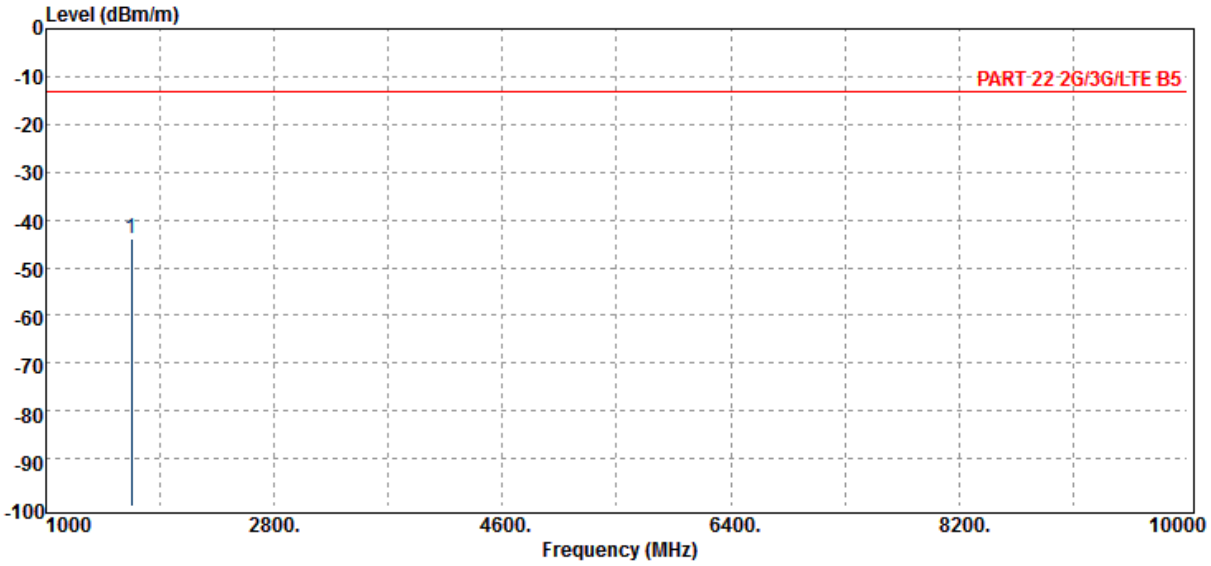
ARFCN	:CH 384	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.04	S	-44.10	-42.86	3.01	-4.26	-13.00	-31.10

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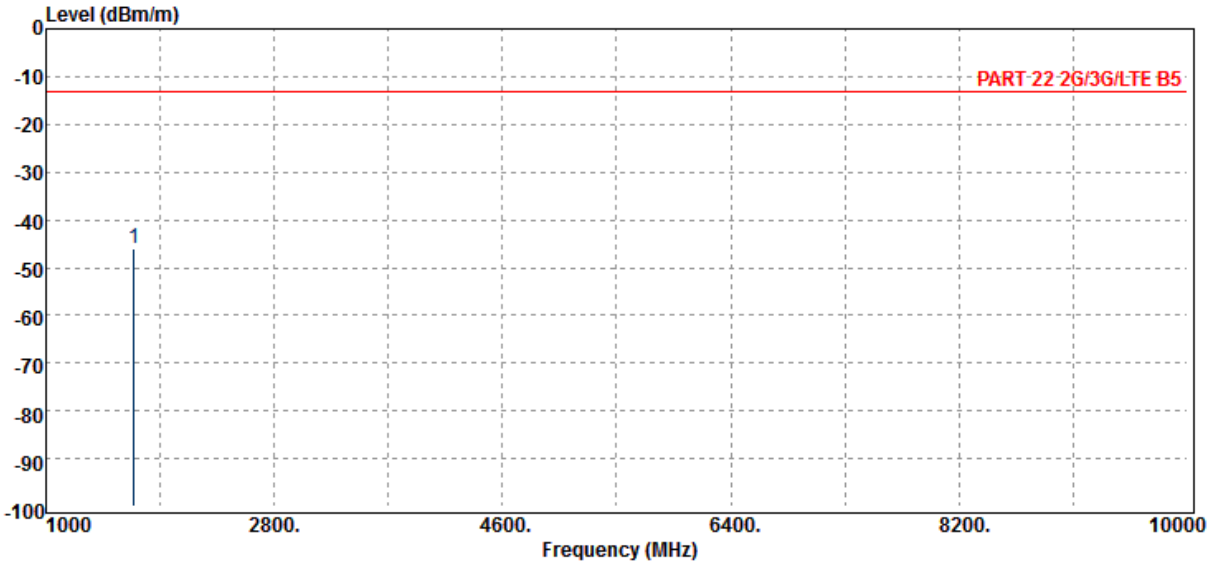
ARFCN	:CH 384	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:836.52 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.04	S	-43.95	-42.71	3.01	-4.26	-13.00	-30.95

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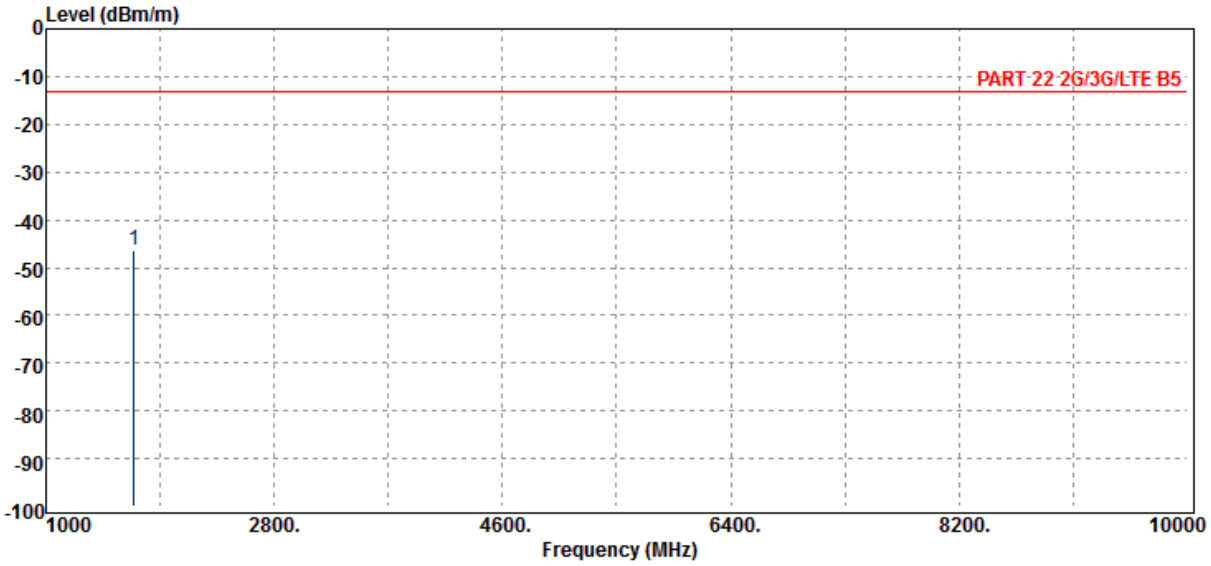
ARFCN	:CH 777	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.62	S	-45.98	-44.66	2.96	-4.28	-13.00	-32.98

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ARFCN	:CH 777	Test Date	:2015-08-28
Operation Band	:CDMA 850	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:848.31 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

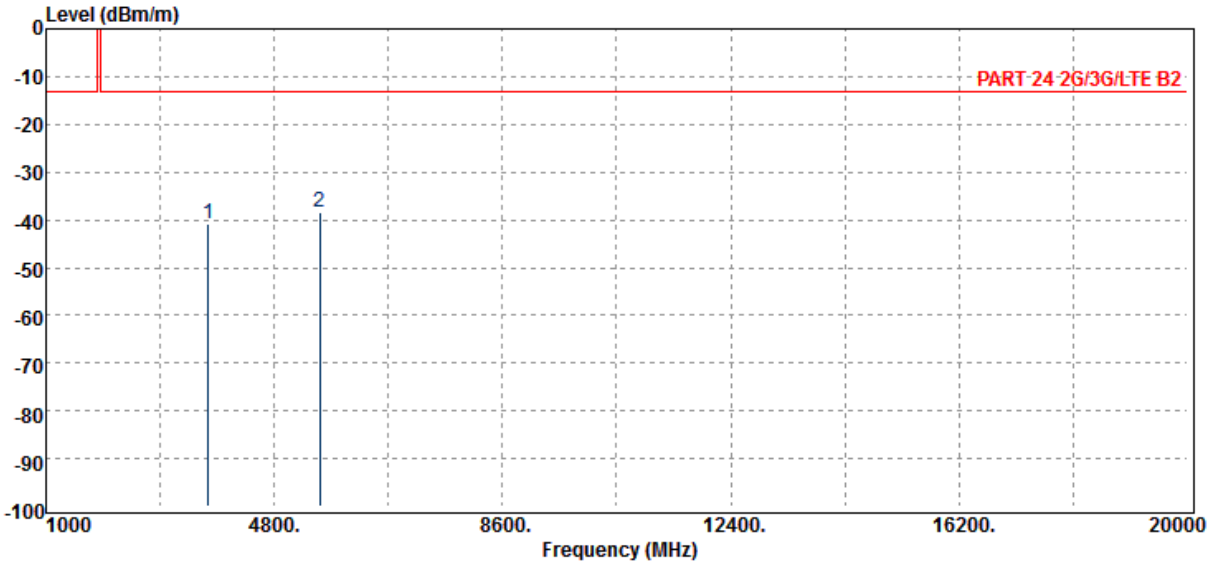


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.62	S	-46.46	-45.15	2.96	-4.28	-13.00	-33.46

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Radiated Spurious Emission Measurement Result: CDMA BC1 Mode

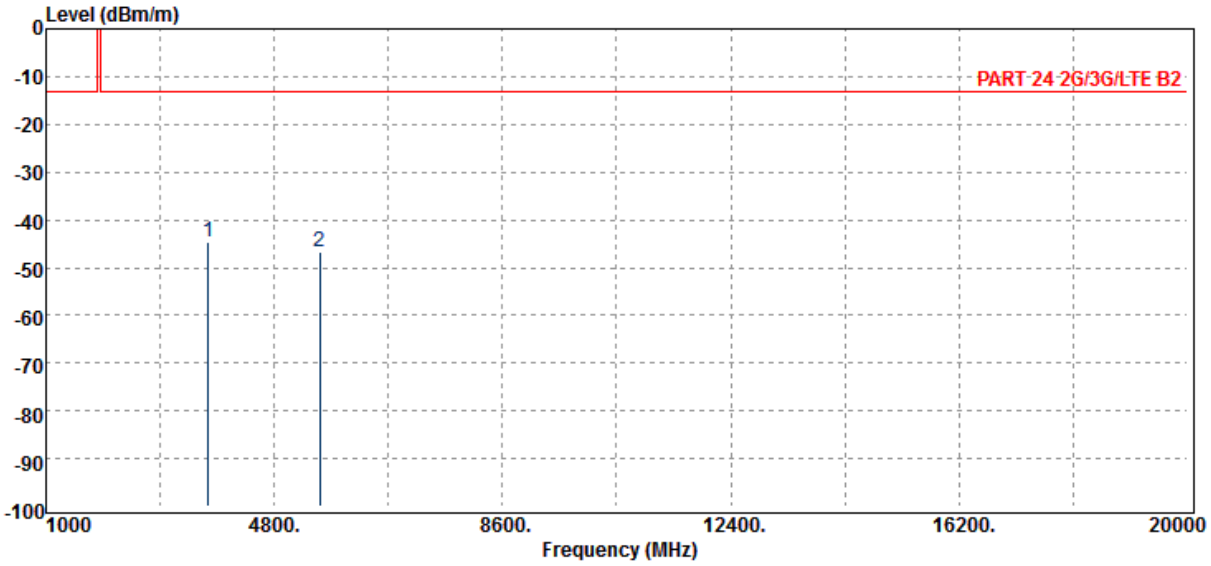
ARFCN	:CH 25	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3702.50	H	-40.91	-42.46	8.43	-6.88	-13.00	-27.91
5553.75	H	-38.50	-40.06	10.10	-8.54	-13.00	-25.50

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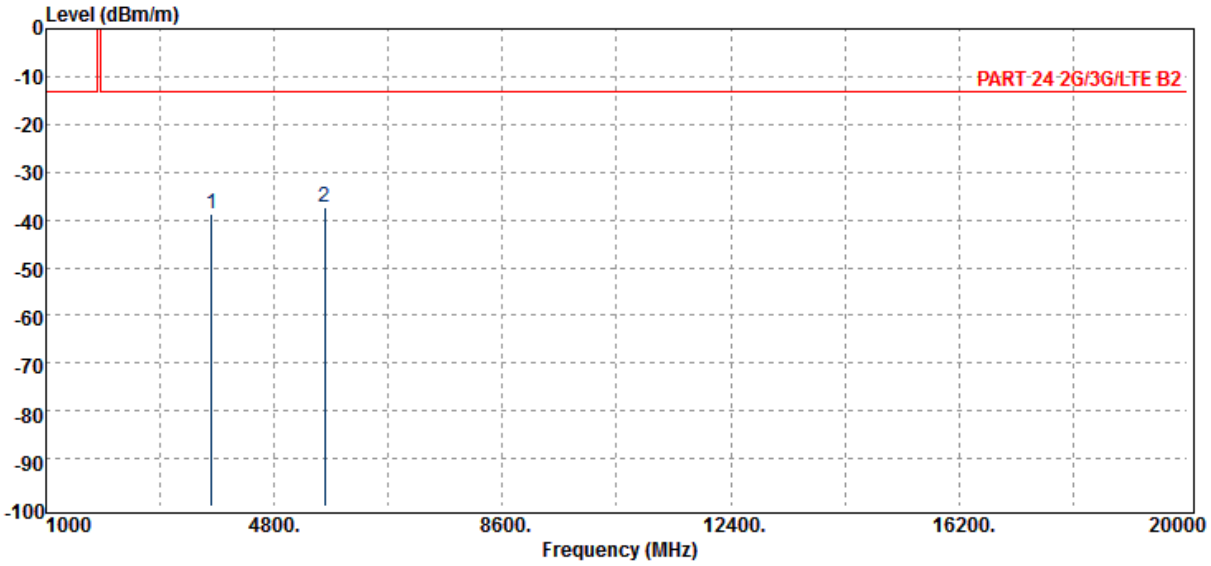
ARFCN	:CH 25	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3702.50	H	-44.63	-46.17	8.43	-6.88	-13.00	-31.63
5553.75	H	-46.60	-48.16	10.10	-8.54	-13.00	-33.60

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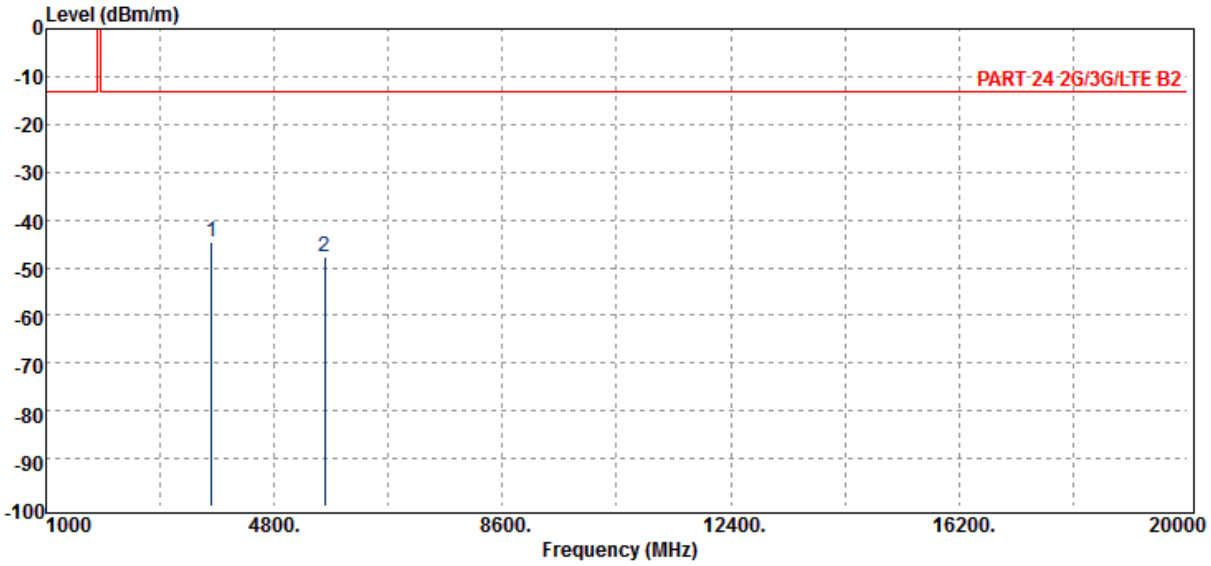
ARFCN	:CH 600	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-38.58	-40.02	8.46	-7.02	-13.00	-25.58
5640.00	H	-37.39	-38.91	10.11	-8.59	-13.00	-24.39

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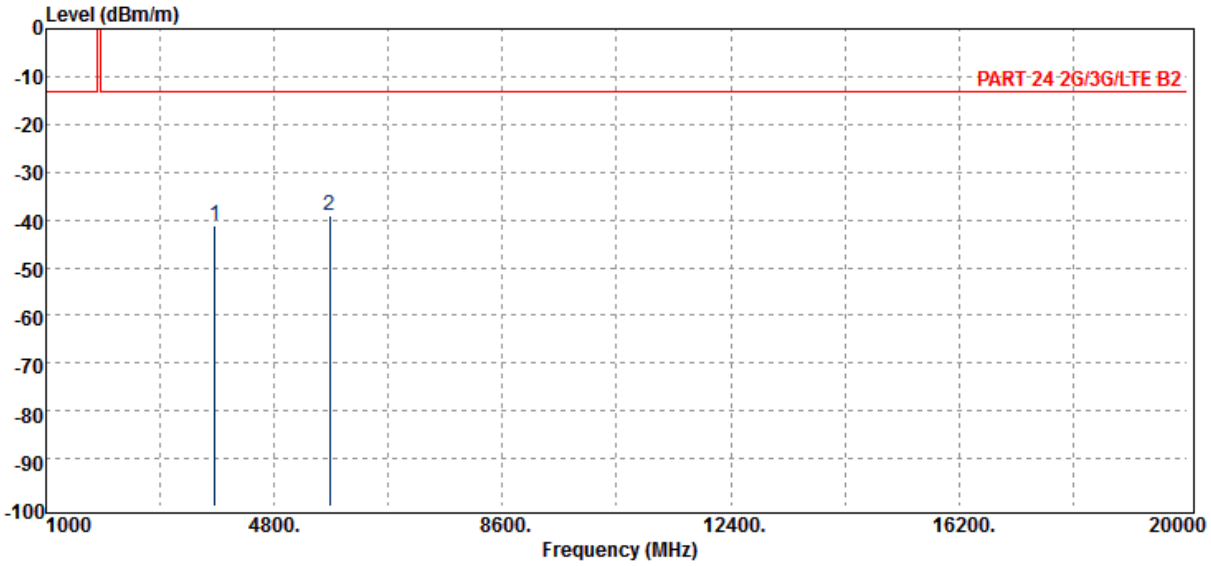
ARFCN	:CH 600	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-44.64	-46.08	8.46	-7.02	-13.00	-31.64
5640.00	H	-47.77	-49.29	10.11	-8.59	-13.00	-34.77

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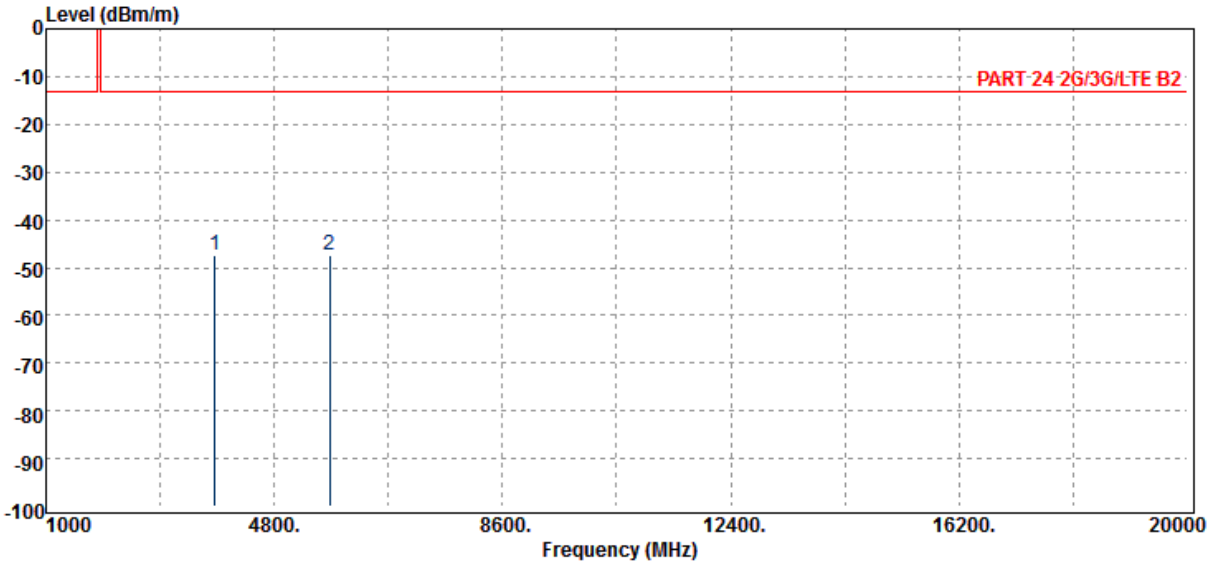
ARFCN	:CH 1175	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3817.50	H	-41.02	-42.46	8.50	-7.05	-13.00	-28.02
5726.25	H	-39.04	-40.53	10.12	-8.63	-13.00	-26.04

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ARFCN	:CH 1175	Test Date	:2015-08-28
Operation Band	:CDMA 1900	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

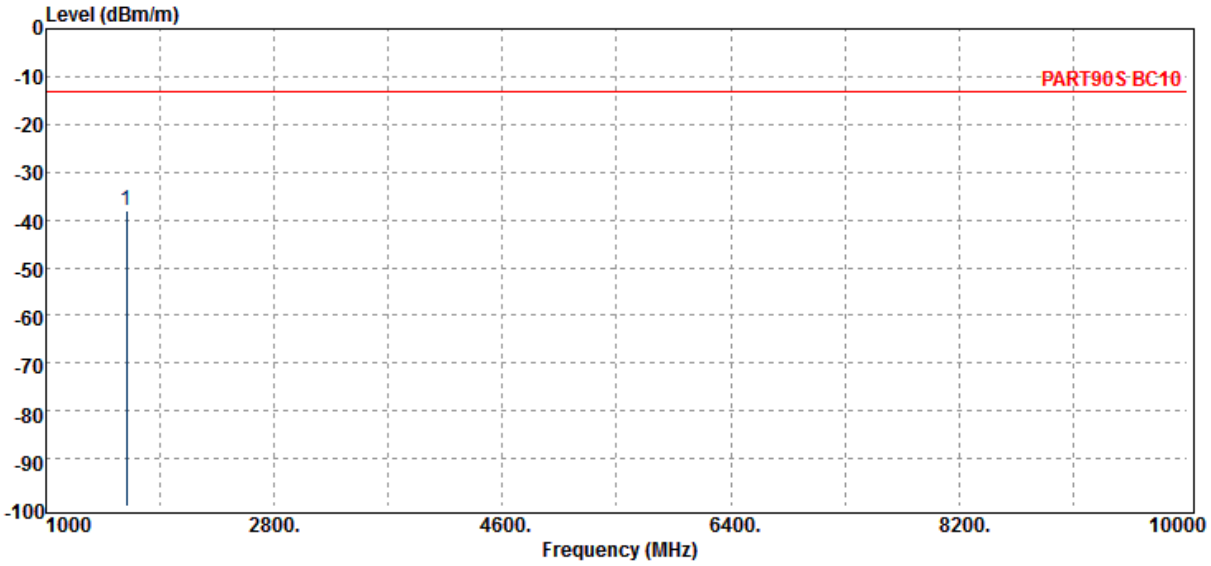


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3817.50	H	-47.34	-48.78	8.50	-7.05	-13.00	-34.34
5726.25	H	-47.40	-48.89	10.12	-8.63	-13.00	-34.40

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Radiated Spurious Emission Measurement Result: CDMA BC10 Mode

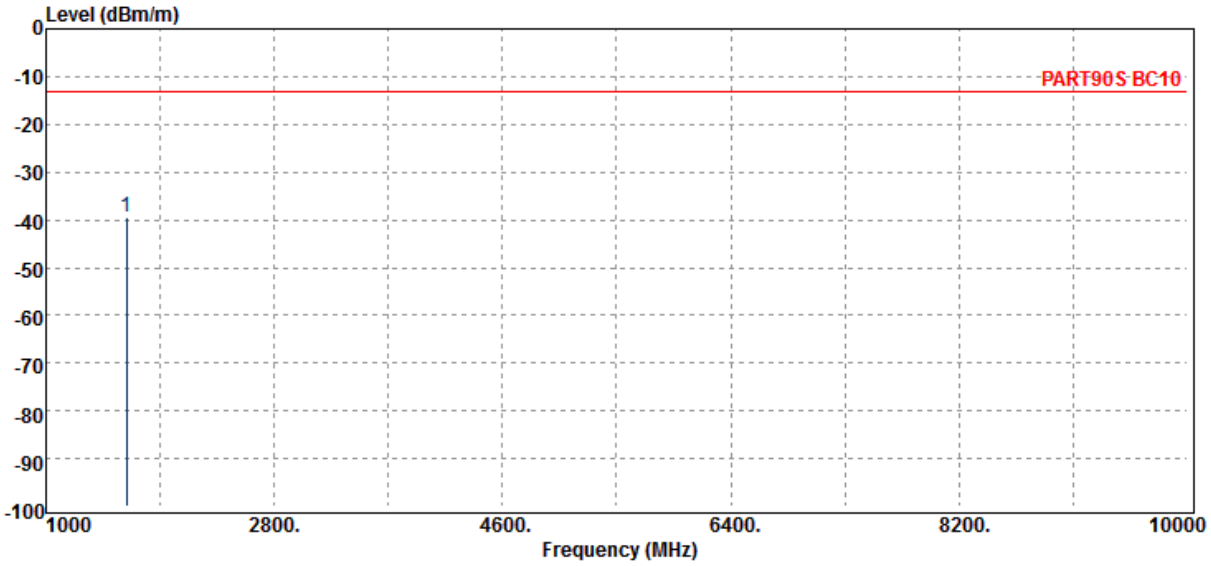
ARFCN	:CH 476	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1635.80	H	-38.03	7.12	3.08	-4.19	-13.00	-25.03

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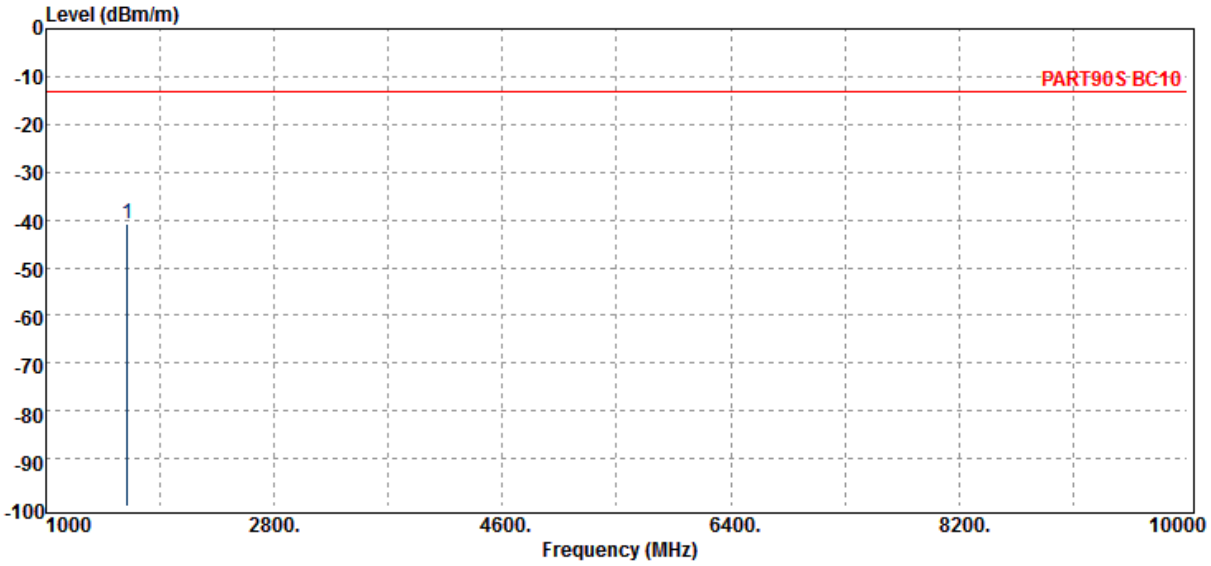
ARFCN	:CH 476	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:817.9 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1635.80	H	-39.30	-38.19	3.08	-4.19	-13.00	-26.30

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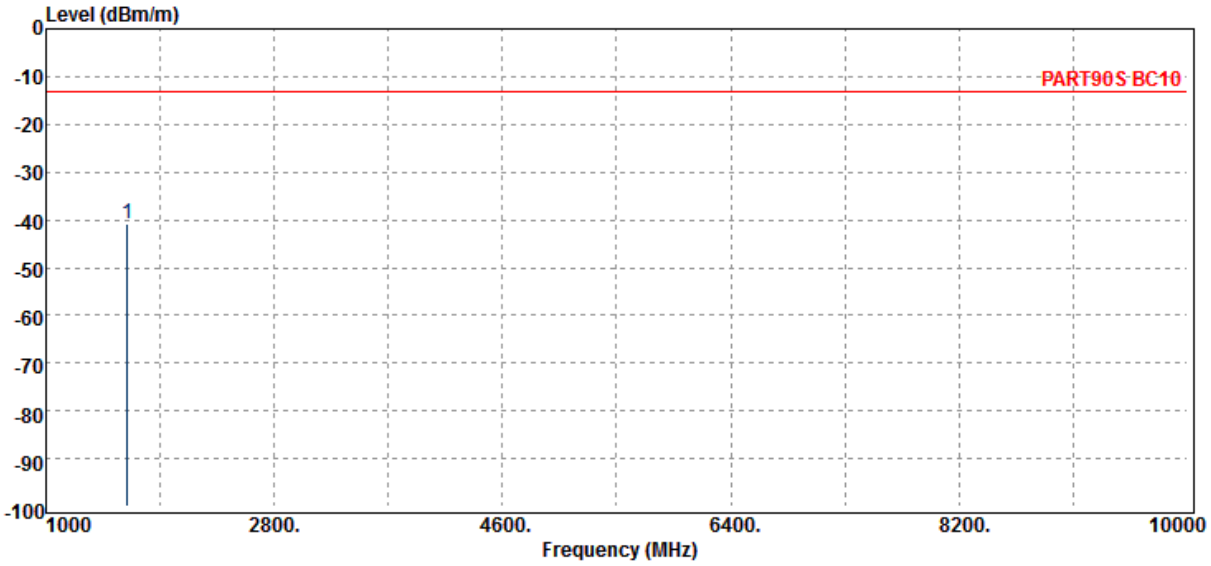
ARFCN	:CH 580	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1641.00	H	-40.73	-39.60	3.07	-4.20	-13.00	-27.73

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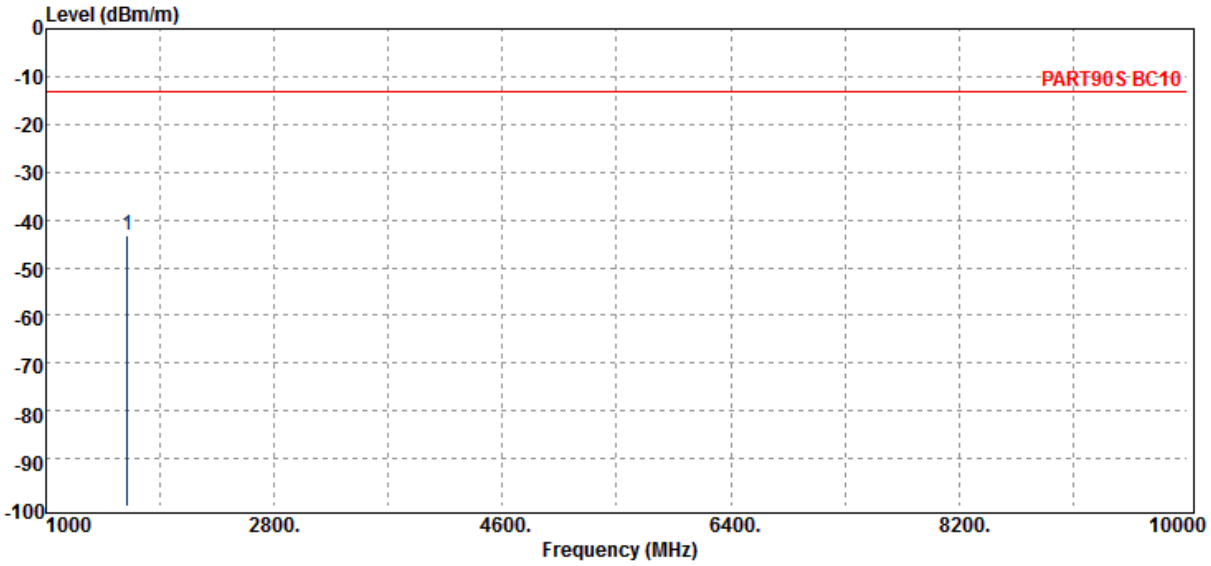
ARFCN	:CH 580	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:820.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1641.00	H	-40.90	-39.77	3.07	-4.20	-13.00	-27.90

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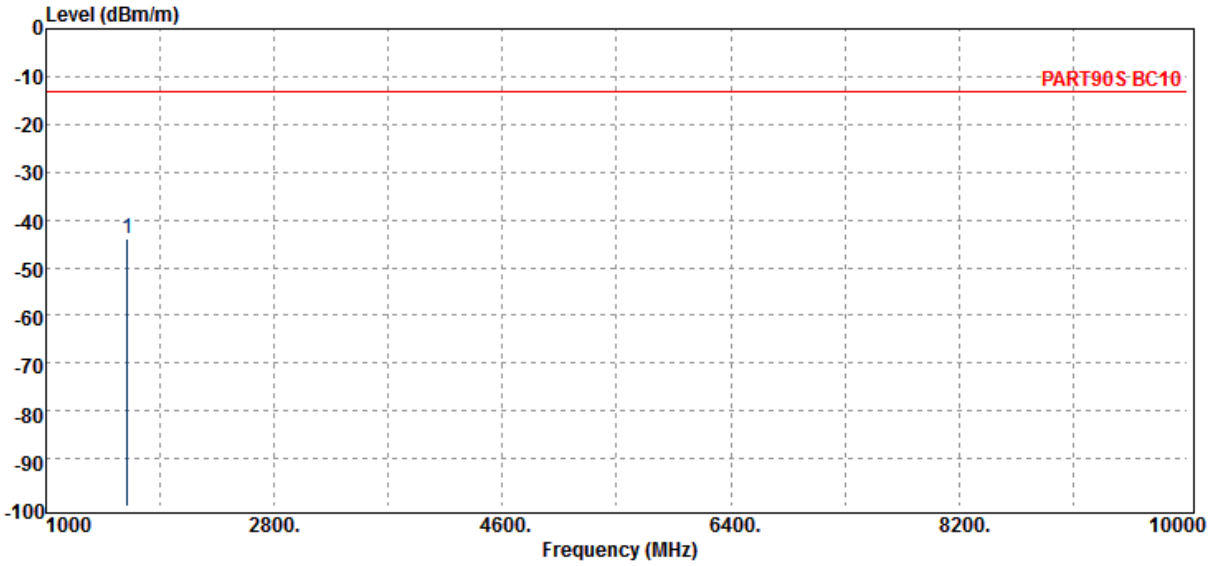
ARFCN	:CH 684	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1642.60	H	-43.20	-42.06	3.07	-4.20	-13.00	-30.20

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ARFCN	:CH 684	Test Date	:2015-08-28
Operation Band	:CDMA BC10	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:823.1 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

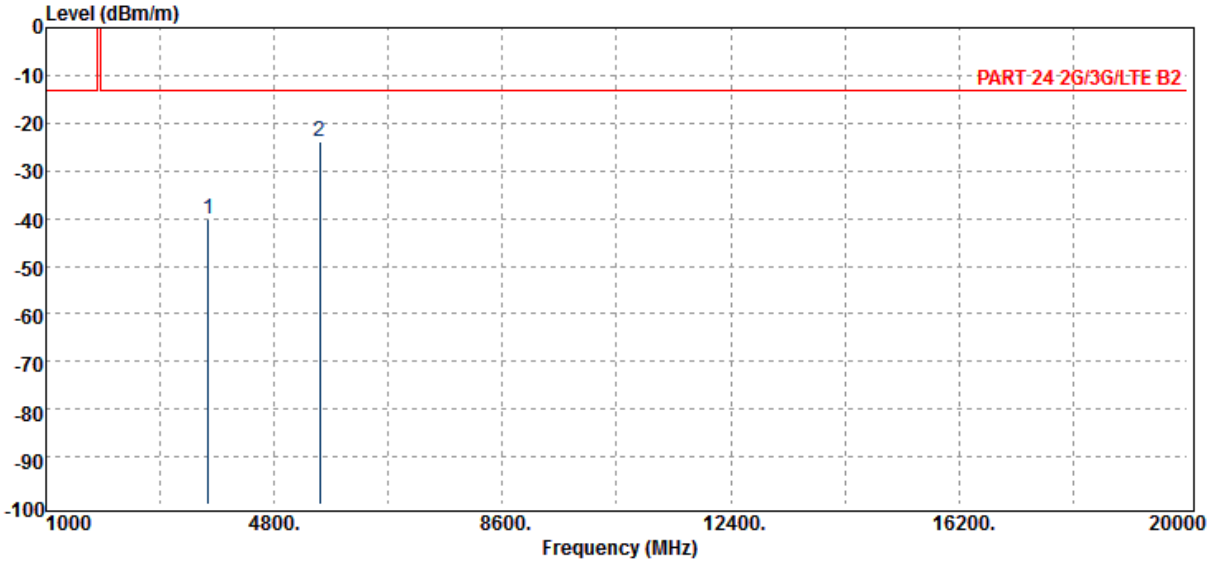


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1642.60	H	-43.88	-42.74	3.07	-4.20	-13.00	-30.88

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 2(The Worst Case)

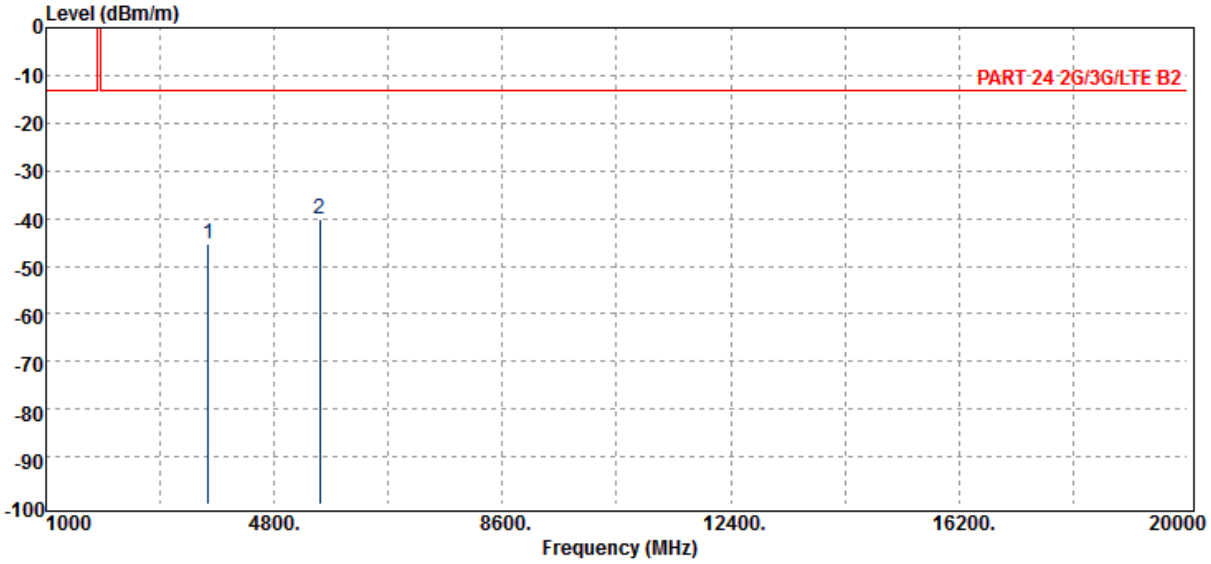
ARFCN	:CH 18607 QPSK BW 1.4 RB 1 5	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Safe Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3701.40	H	-40.30	-41.84	8.43	-6.88	-13.00	-27.30
5552.10	H	-23.71	-25.27	10.10	-8.55	-13.00	-10.71

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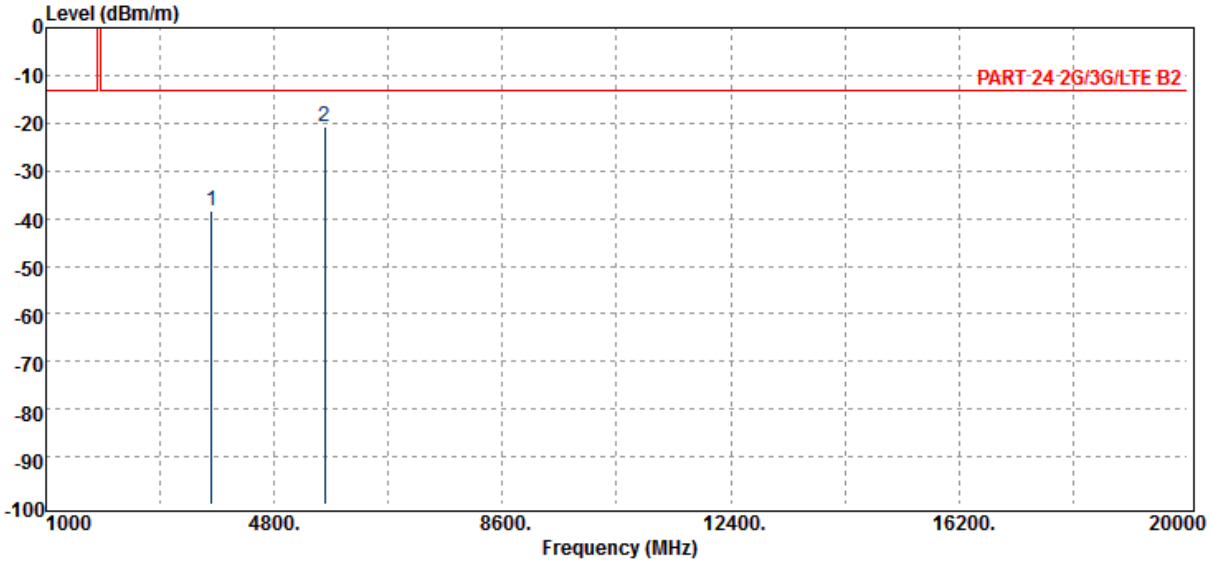
ARFCN	:CH 18607 QPSK BW 1.4 RB 1 5	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3701.40	H	-45.18	-46.72	8.43	-6.88	-13.00	-32.18
5552.10	H	-40.07	-41.63	10.10	-8.55	-13.00	-27.07

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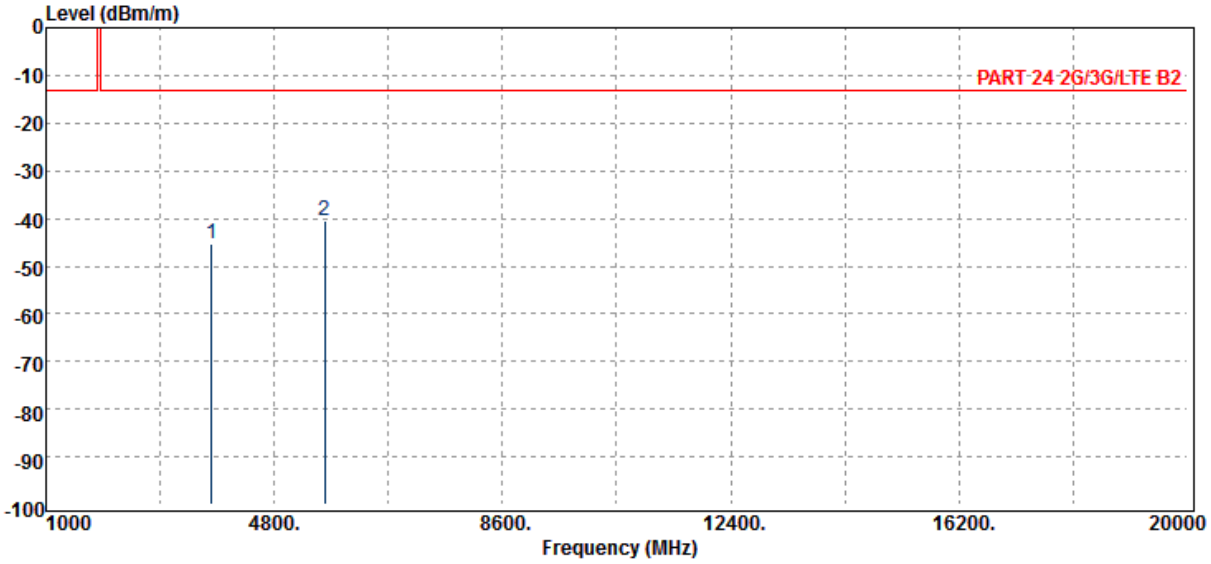
ARFCN	:CH 18900 QPSK BW 1.4 RB 1 5	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-38.41	-39.85	8.46	-7.02	-13.00	-25.41
5640.00	H	-20.70	-22.22	10.11	-8.59	-13.00	-7.70

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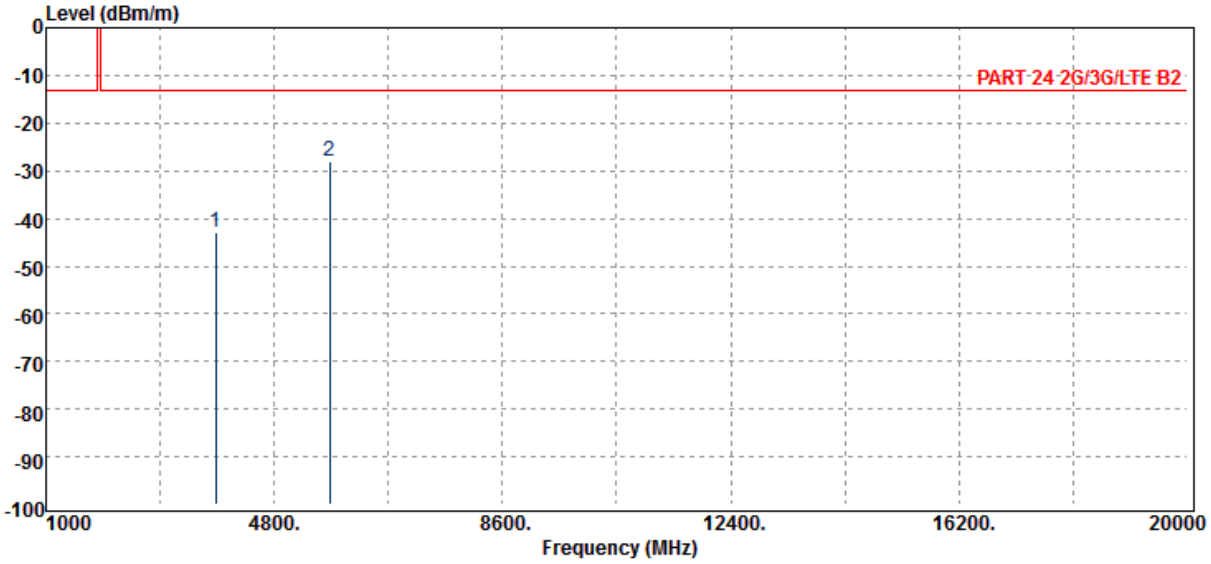
ARFCN	:CH 18900 QPSK BW 1.4 RB 1 5	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3760.00	H	-45.45	-46.89	8.46	-7.02	-13.00	-32.45
5640.00	H	-40.37	-41.89	10.11	-8.59	-13.00	-27.37

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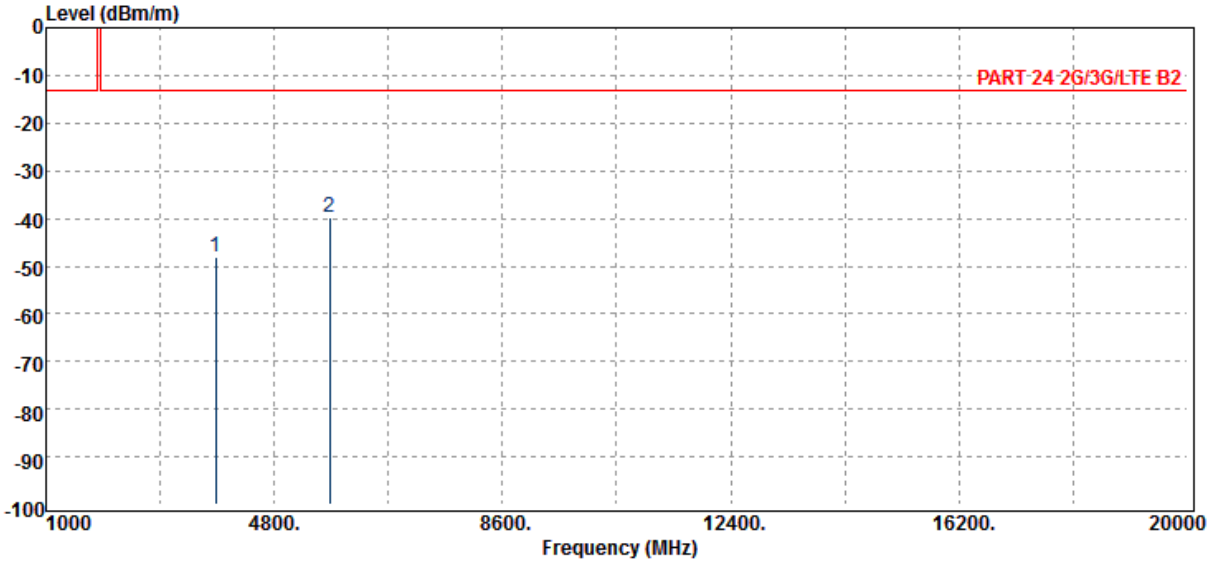
ARFCN	:CH 19193 QPSK BW 1.4 RB 1 5	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3818.60	H	-42.78	-44.23	8.50	-7.05	-13.00	-29.78
5727.90	H	-28.02	-29.51	10.12	-8.64	-13.00	-15.02

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ARFCN	:CH 19193 QPSK BW 1.4 RB 1 5	Test Date	:2015-08-28
Operation Band	:LTE B2	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

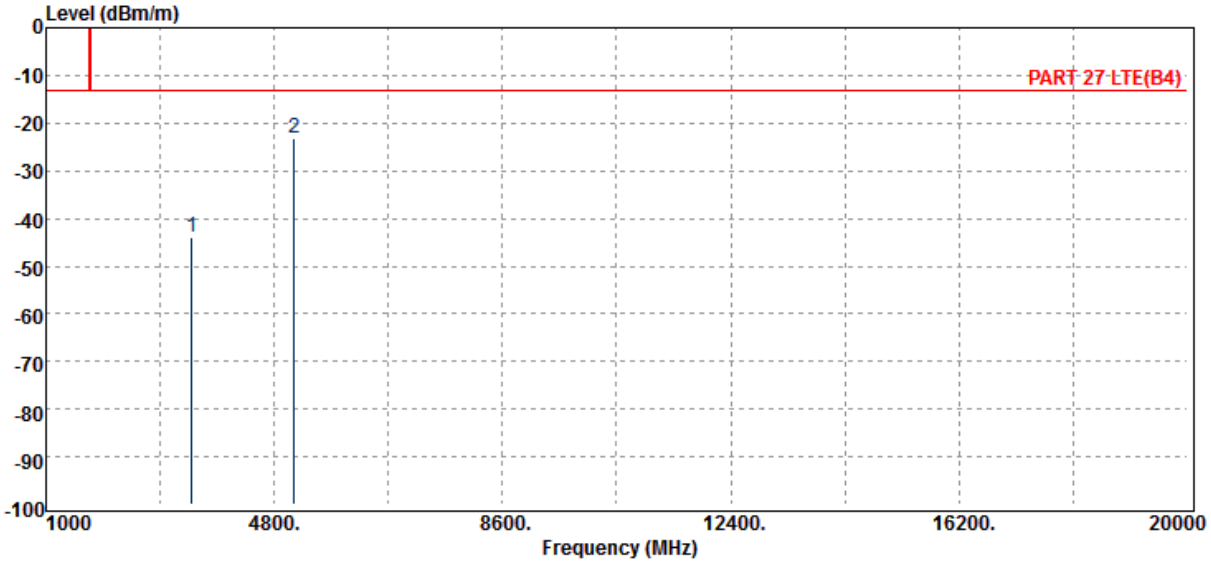


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3818.60	H	-48.09	-49.54	8.50	-7.05	-13.00	-35.09
5727.90	H	-39.91	-41.40	10.12	-8.64	-13.00	-26.91

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Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 4 (The Worst Case)

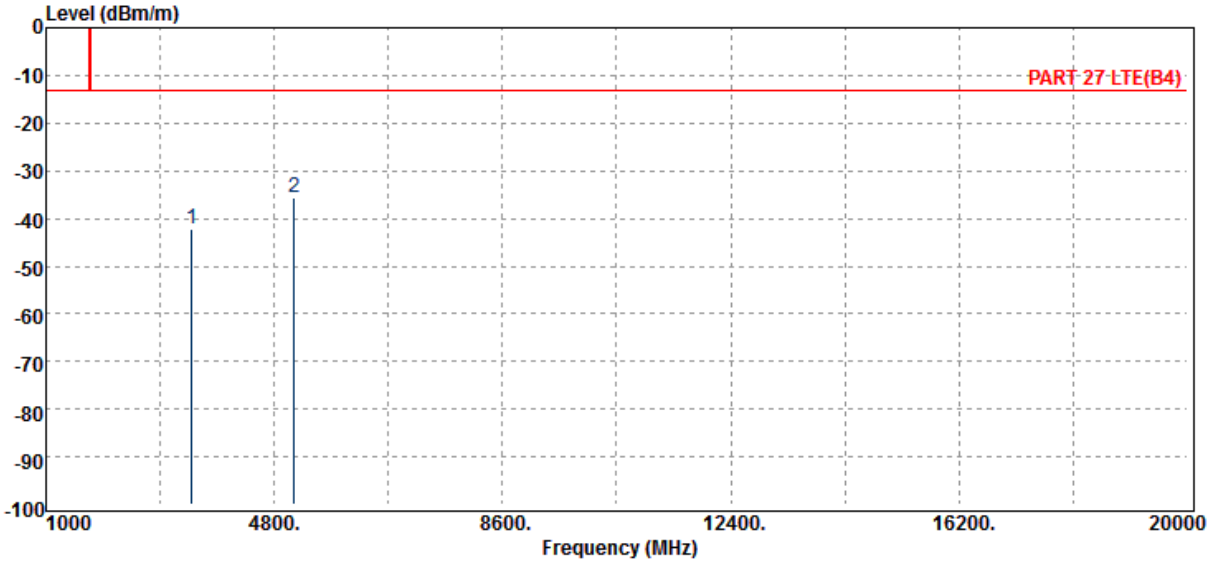
ARFCN	:CH 19975 16QAM BW 5 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1712.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3425.00	H	-43.80	-45.35	8.09	-6.54	-13.00	-30.80
5137.50	H	-23.20	-24.60	9.89	-8.48	-13.00	-10.20

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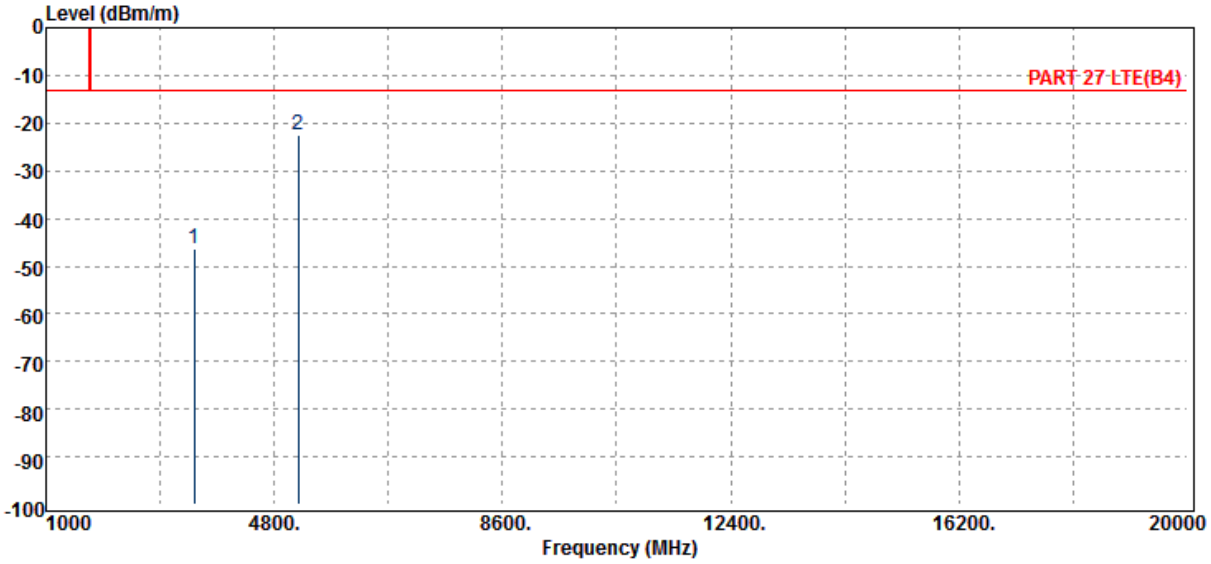
ARFCN	:CH 19975 16QAM BW 5 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1712.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3425.00	H	-42.27	-43.82	8.09	-6.54	-13.00	-29.27
5137.50	H	-35.65	-37.05	9.89	-8.48	-13.00	-22.65

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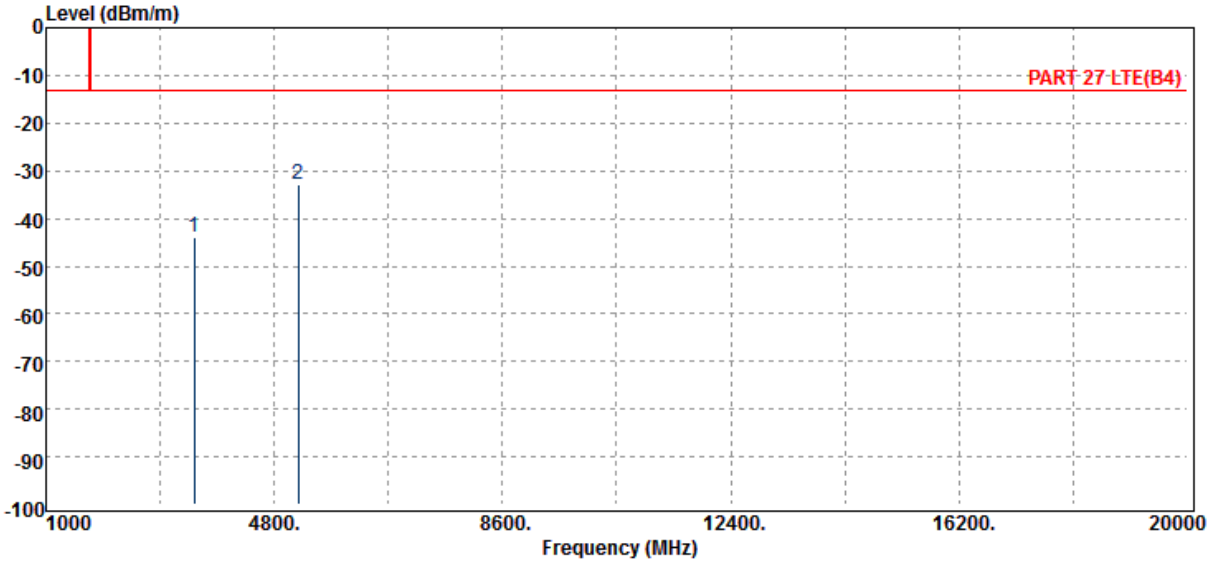
ARFCN	:CH 20175 16QAM BW 5 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.00	H	-46.27	-47.94	8.20	-6.53	-13.00	-33.27
5197.50	H	-22.46	-23.89	9.92	-8.49	-13.00	-9.46

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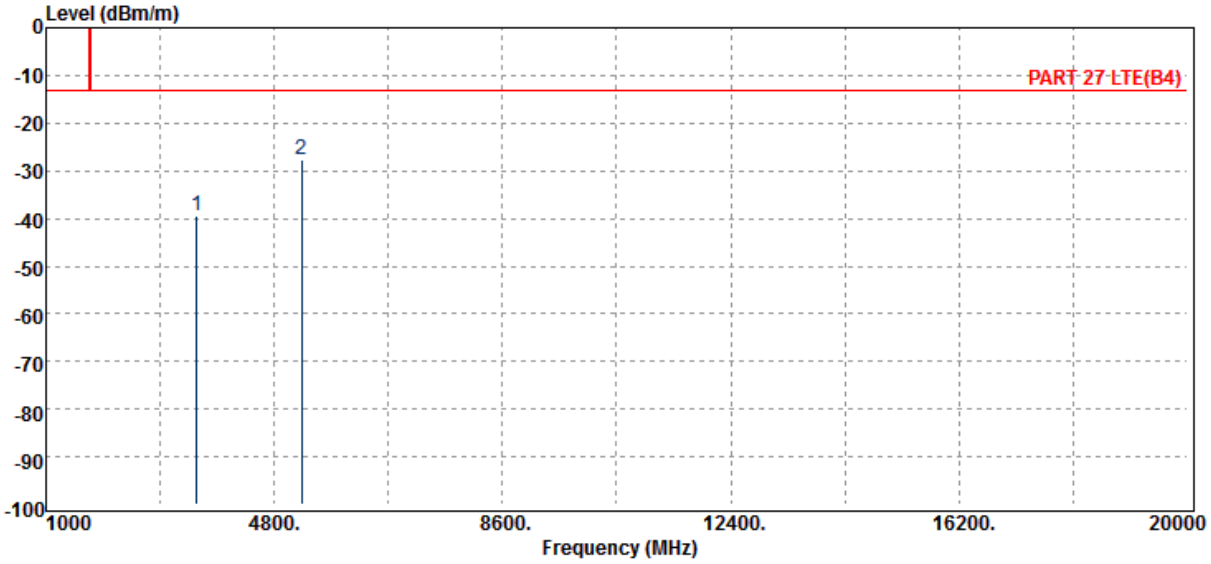
ARFCN	:CH 20175 16QAM BW 5 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3465.00	H	-43.96	-45.63	8.20	-6.53	-13.00	-30.96
5197.50	H	-32.80	-34.24	9.92	-8.49	-13.00	-19.80

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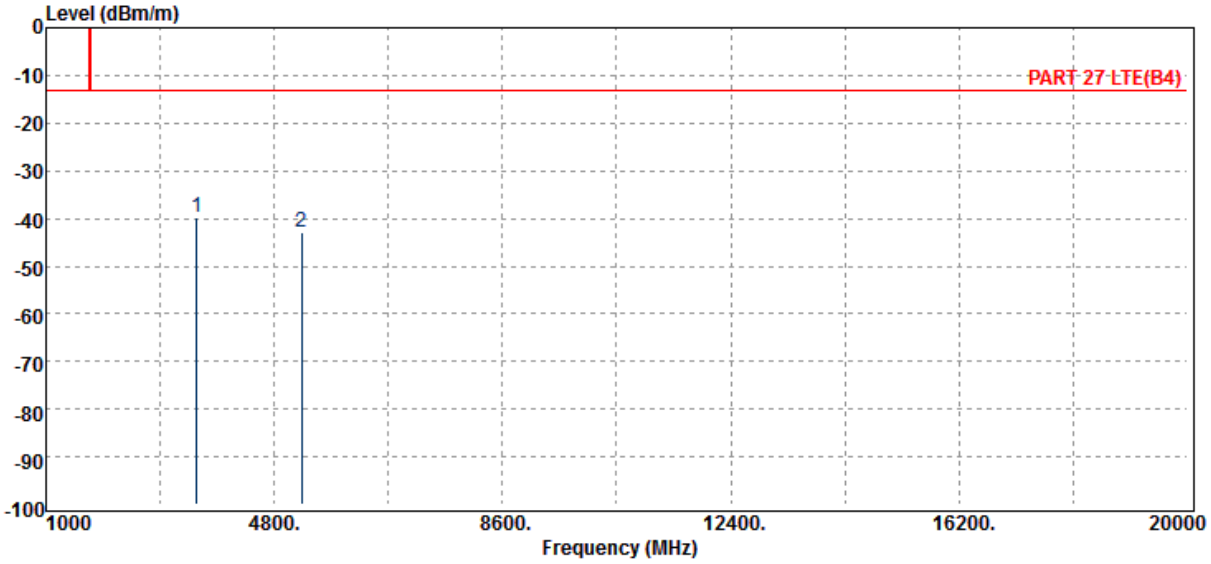
ARFCN	:CH 20375 16QAM BW 5 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1752.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3505.00	H	-39.51	-41.13	8.30	-6.68	-13.00	-26.51
5257.50	H	-27.56	-28.95	9.96	-8.57	-13.00	-14.56

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ARFCN	:CH 20375 16QAM BW 5 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B4	Temp./Humi.	:21 deg_C / 52 RH
Fundamental Frequency	:1752.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

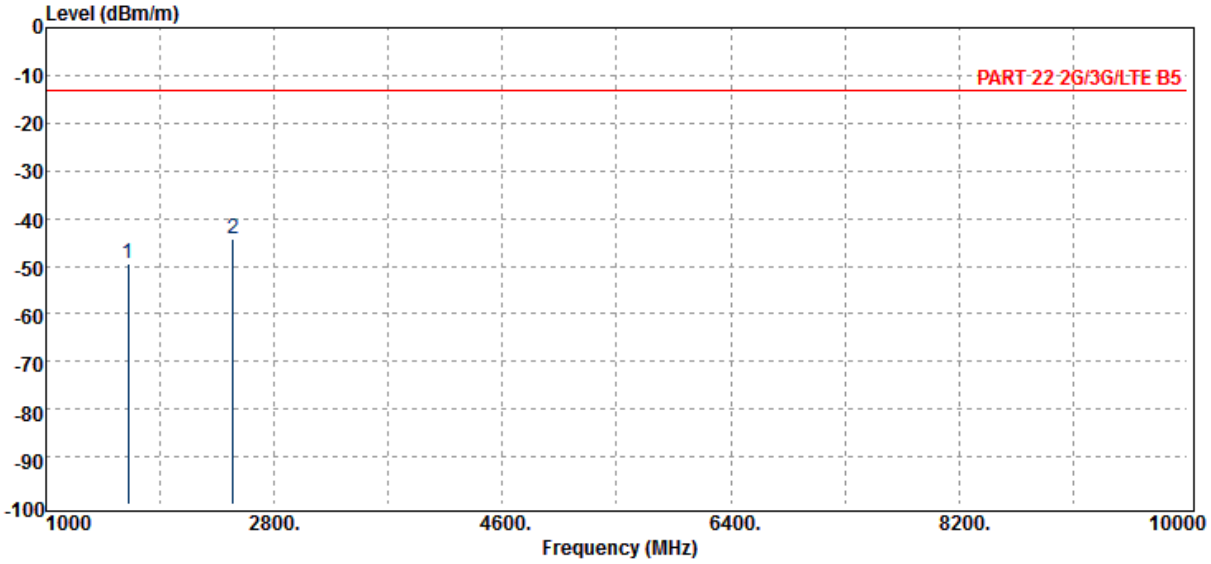


Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3495.00	H	-42.92	-44.57	8.29	-6.64	-13.00	-29.92
5242.50	H	-49.34	-50.75	9.95	-8.55	-13.00	-36.34

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Radiated Spurious Emission Measurement Result: 3MHz BW LTE-Band 5 (The Worst Case)

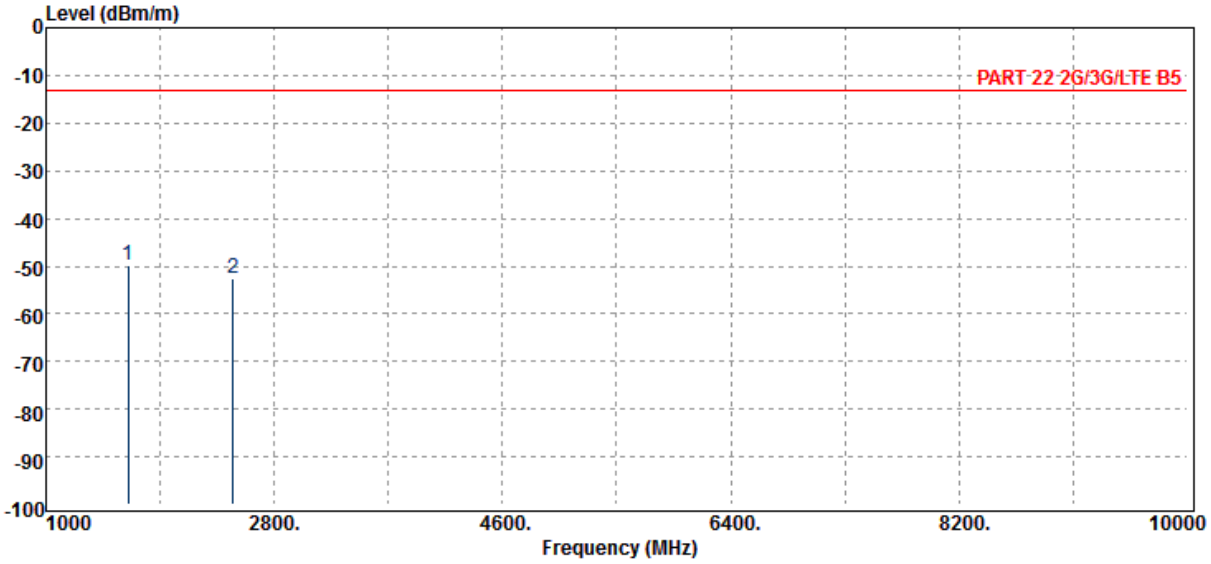
ARFCN	:CH 20415 16QAM BW 3 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1651.00	S	-49.58	-48.41	3.05	-4.22	-13.00	-36.58
2476.50	S	-44.40	-42.68	3.60	-5.32	-13.00	-31.40

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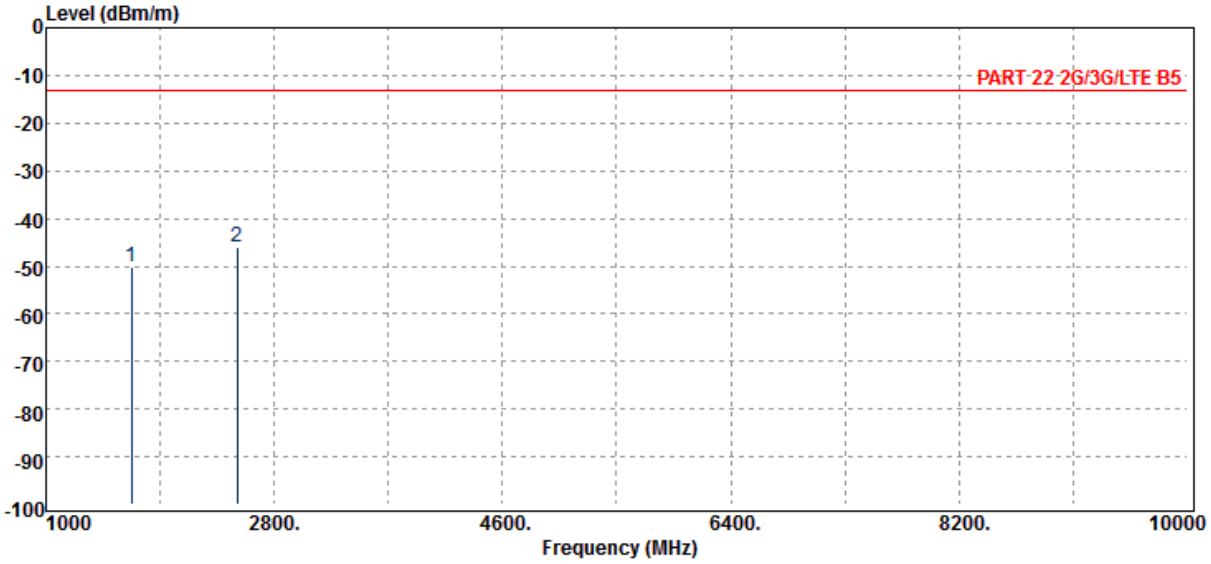
ARFCN	:CH 20415 16QAM BW 3 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:825.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1651.00	S	-49.80	-48.63	3.05	-4.22	-13.00	-36.80
2476.50	S	-52.62	-50.90	3.60	-5.32	-13.00	-39.62

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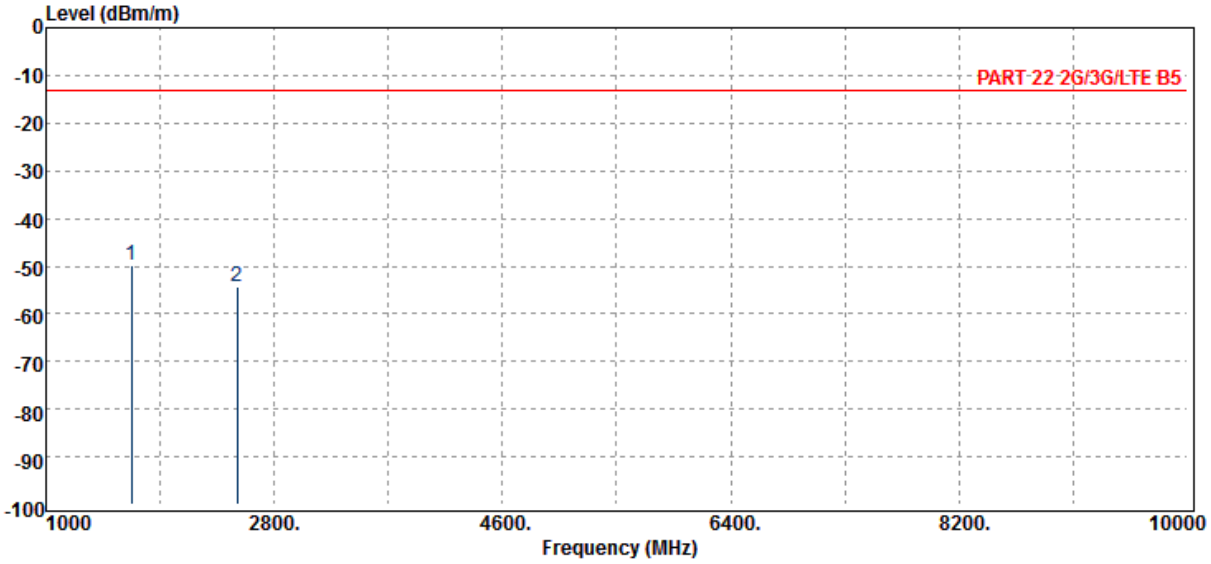
ARFCN	:CH 20525 16QAM BW 3 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.00	S	-50.06	-48.82	3.01	-4.26	-13.00	-37.06
2509.50	S	-45.94	-44.26	3.67	-5.35	-13.00	-32.94

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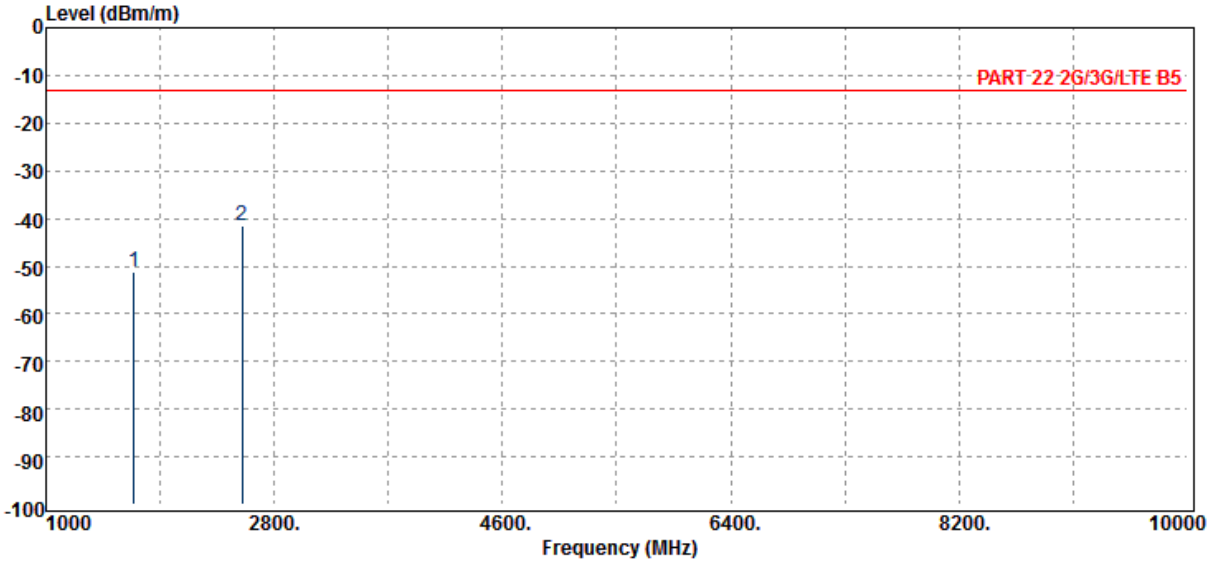
ARFCN	:CH 20525 16QAM BW 3 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1673.00	S	-49.70	-48.46	3.01	-4.26	-13.00	-36.70
2509.50	S	-54.49	-52.82	3.67	-5.35	-13.00	-41.49

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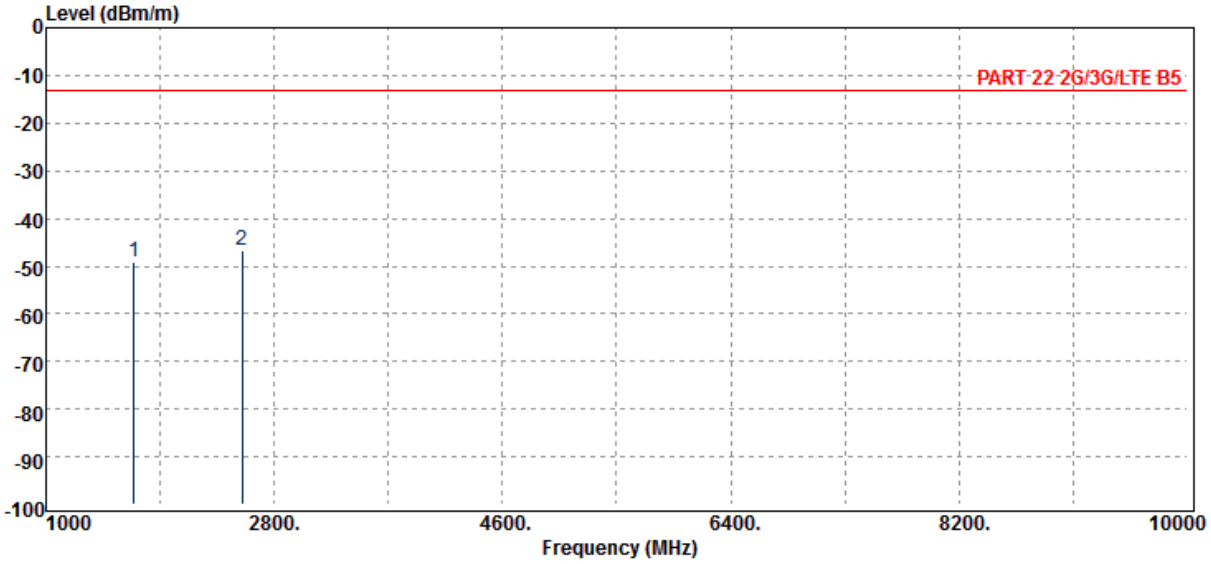
ARFCN	:CH 20643 16QAM BW 3 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.60	S	-51.10	-49.79	2.96	-4.28	-13.00	-38.10
2544.90	S	-41.54	-39.88	3.75	-5.41	-13.00	-28.54

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ARFCN	:CH 20643 16QAM BW 3 RB 1 0	Test Date	:2015-08-28
Operation Band	:LTE B5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:848.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

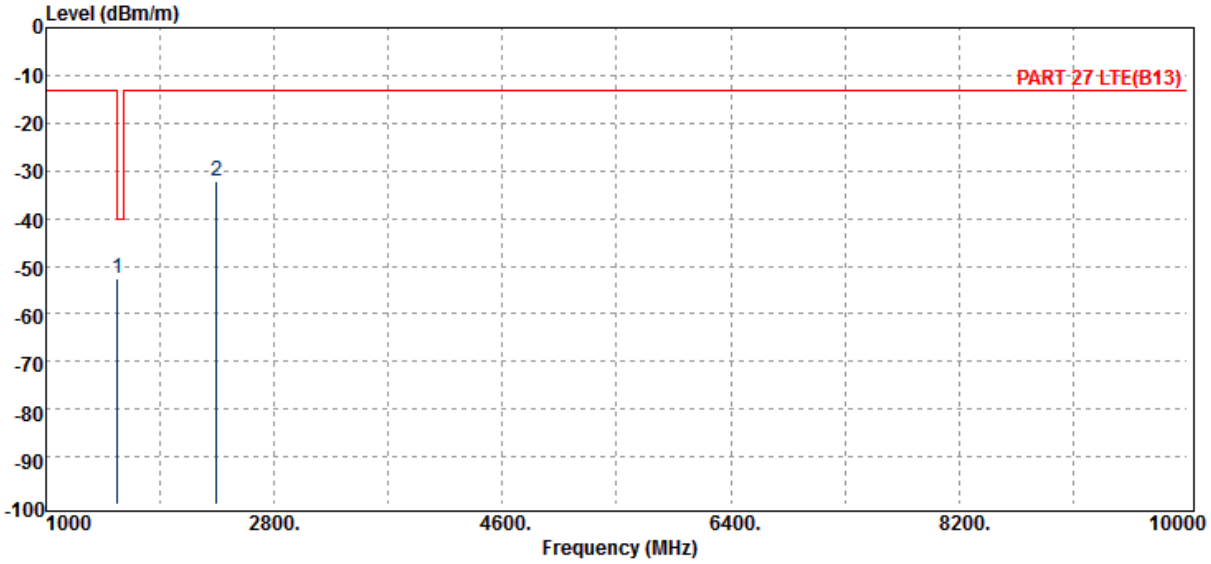


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1696.60	S	-49.27	-47.96	2.96	-4.28	-13.00	-36.27
2544.90	S	-46.77	-45.11	3.75	-5.41	-13.00	-33.77

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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 13(The Worst Case)

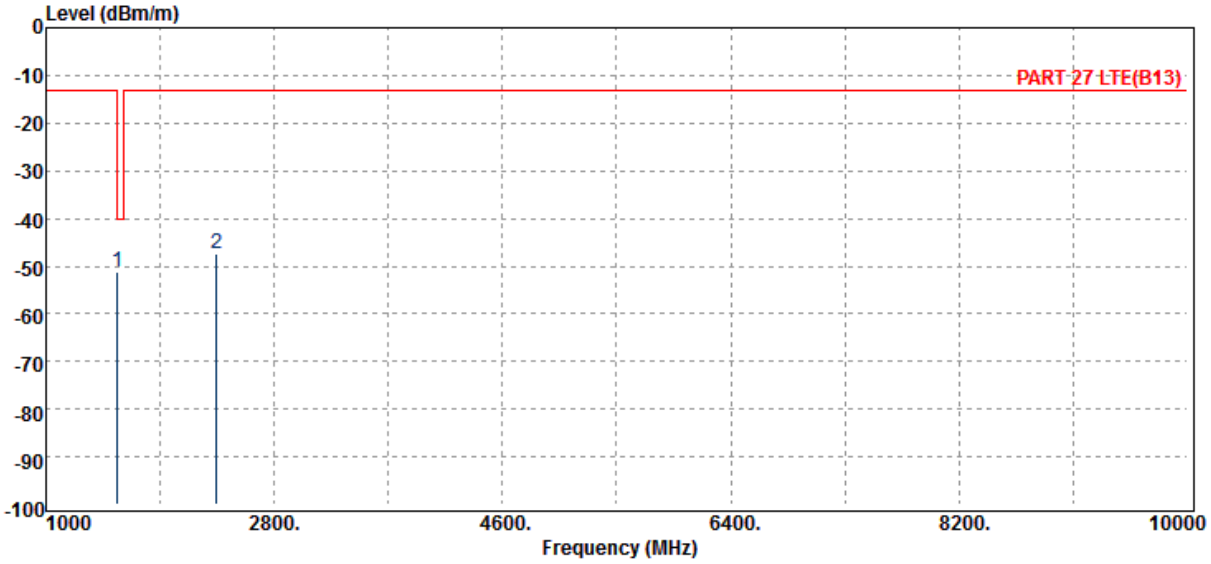
ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1564.00	H	-52.67	-51.78	3.22	-4.11	-40.00	-12.67
2346.00	H	-32.05	-30.26	3.31	-5.09	-13.00	-19.05

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ARFCN	:CH 23230 16QAM BW 10 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B13	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:782.0 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

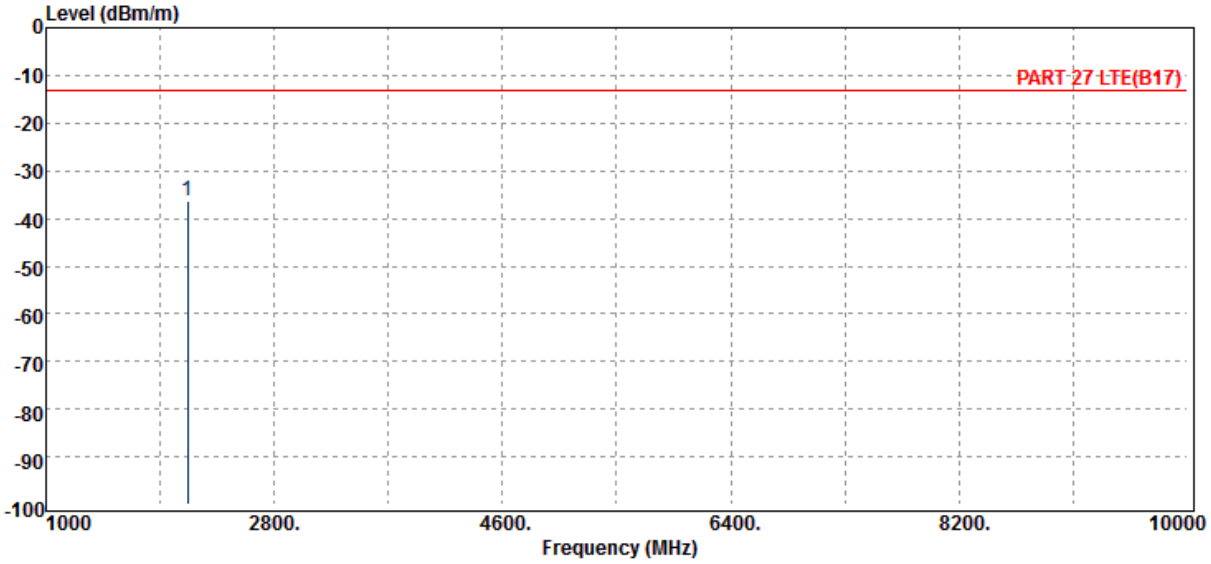


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
1564.00	H	-51.28	-50.39	3.22	-4.11	-40.00	-11.28
2346.00	H	-47.27	-45.49	3.31	-5.09	-13.00	-34.27

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (The Worst Case)

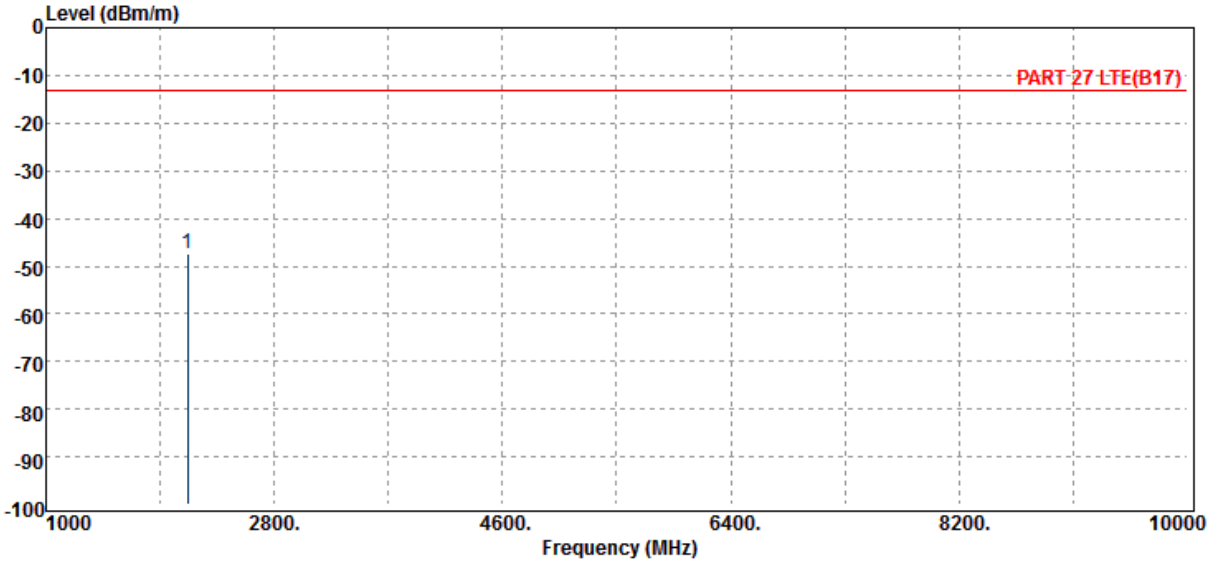
ARFCN	:CH 23755 16QAM BW 5 RB1 24	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
2119.50	H	-36.31	-34.23	2.76	-4.84	-13.00	-23.31

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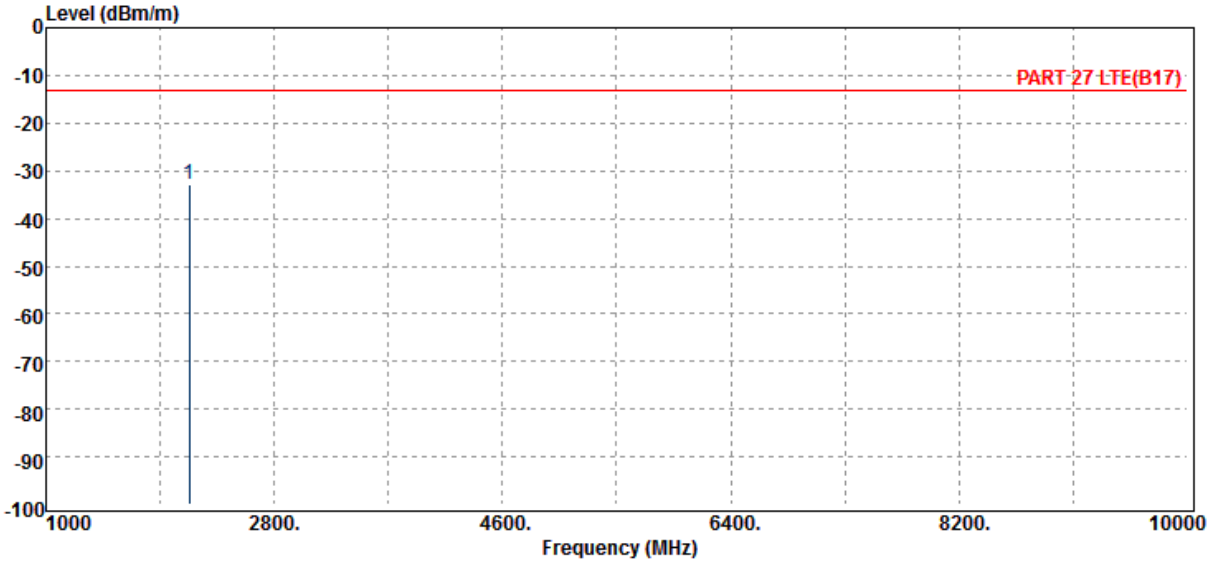
ARFCN	:CH 23755 16QAM BW 5 RB1 24	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
2119.50	H	-47.55	-45.47	2.76	-4.84	-13.00	-34.55

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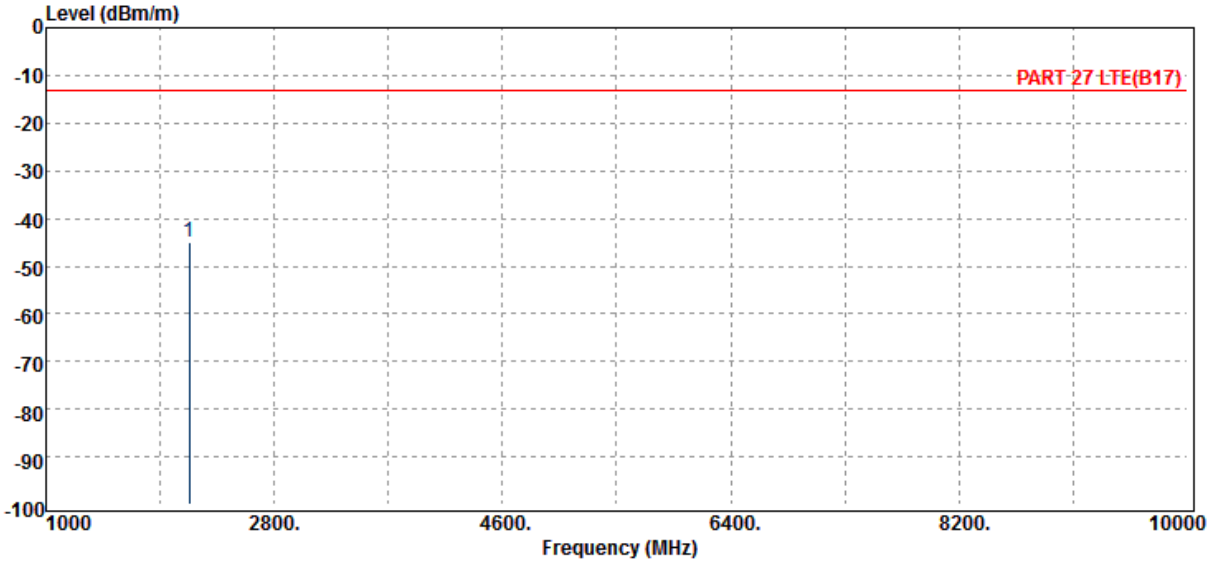
ARFCN	:CH 23790 16QAM BW 5 RB1 24	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
2130.00	H	-33.01	-30.95	2.79	-4.85	-13.00	-20.01

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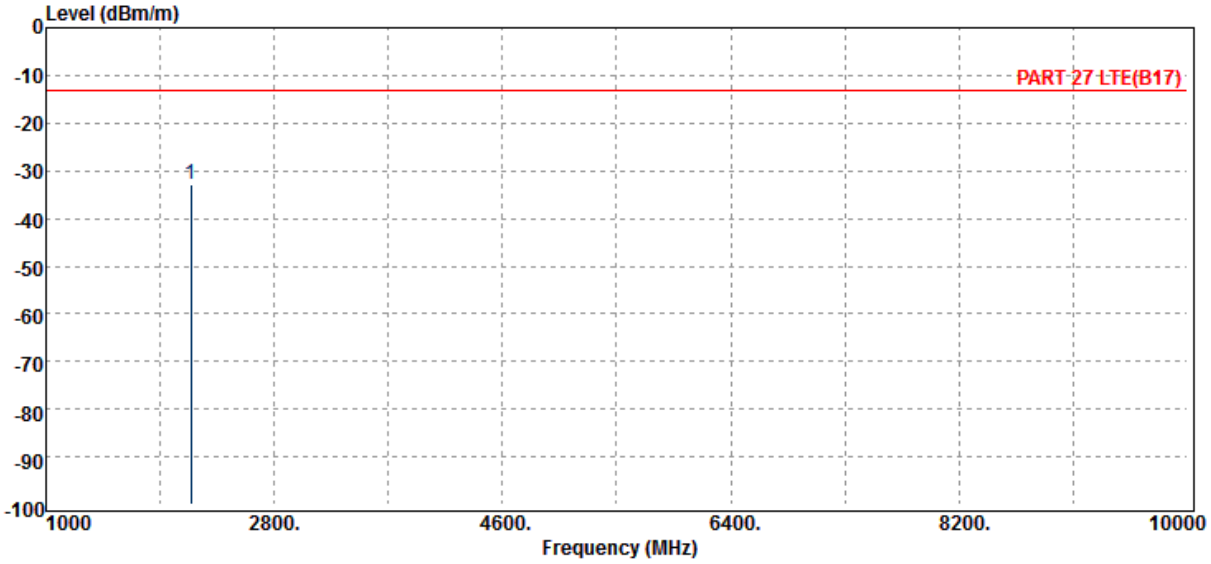
ARFCN	:CH 23790 16QAM BW 5 RB1 24	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:710 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
2130.00	H	-44.96	-42.90	2.79	-4.85	-13.00	-31.96

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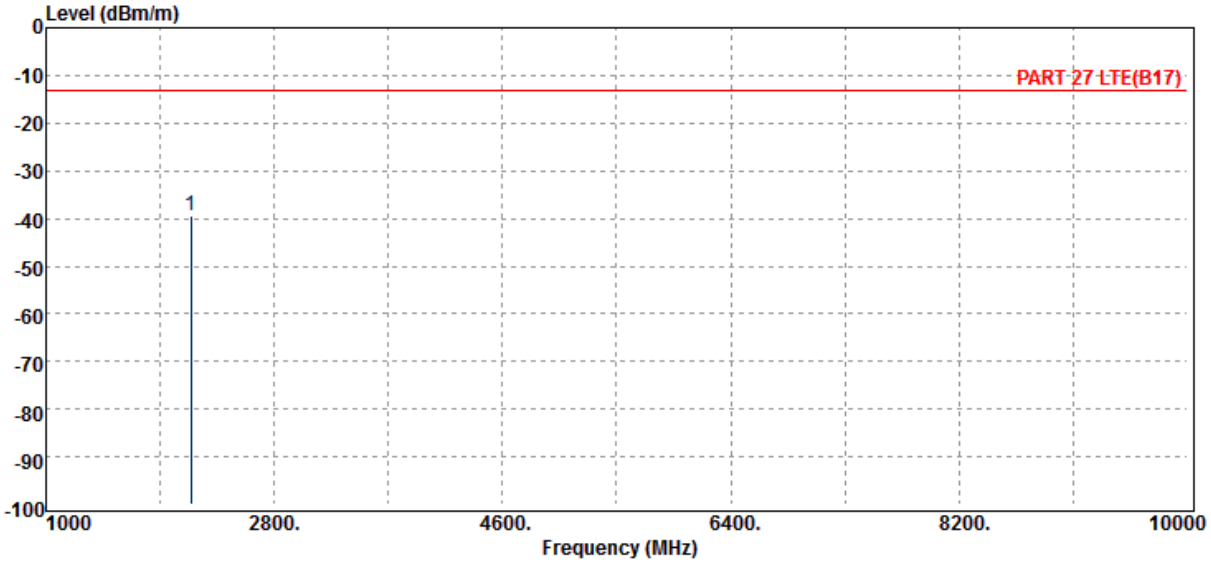
ARFCN	:CH 23825 16QAM BW 5 RB1 24	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
2140.50	H	-32.85	-30.81	2.82	-4.86	-13.00	-19.85

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ARFCN	:CH 23825 16QAM BW 5 RB1 24	Test Date	:2015-08-28
Operation Band	:LTE B17	Temp./Humi.	:23 deg_C / 52 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

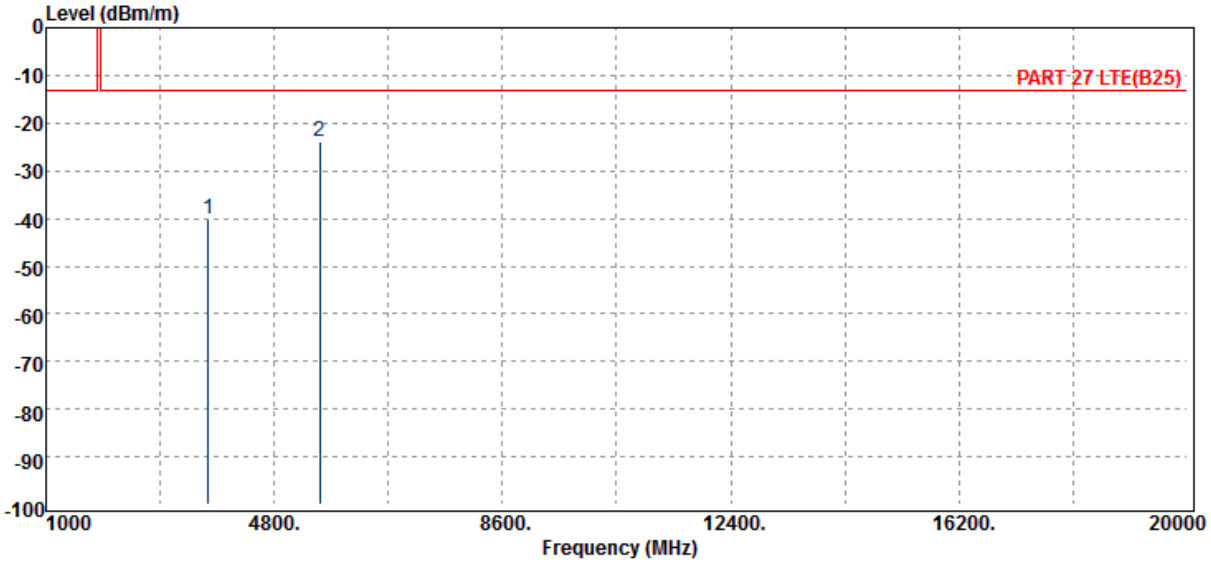


Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
2140.50	H	-39.45	-37.41	2.82	-4.86	-13.00	-26.45

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 25 (The Worst Case)

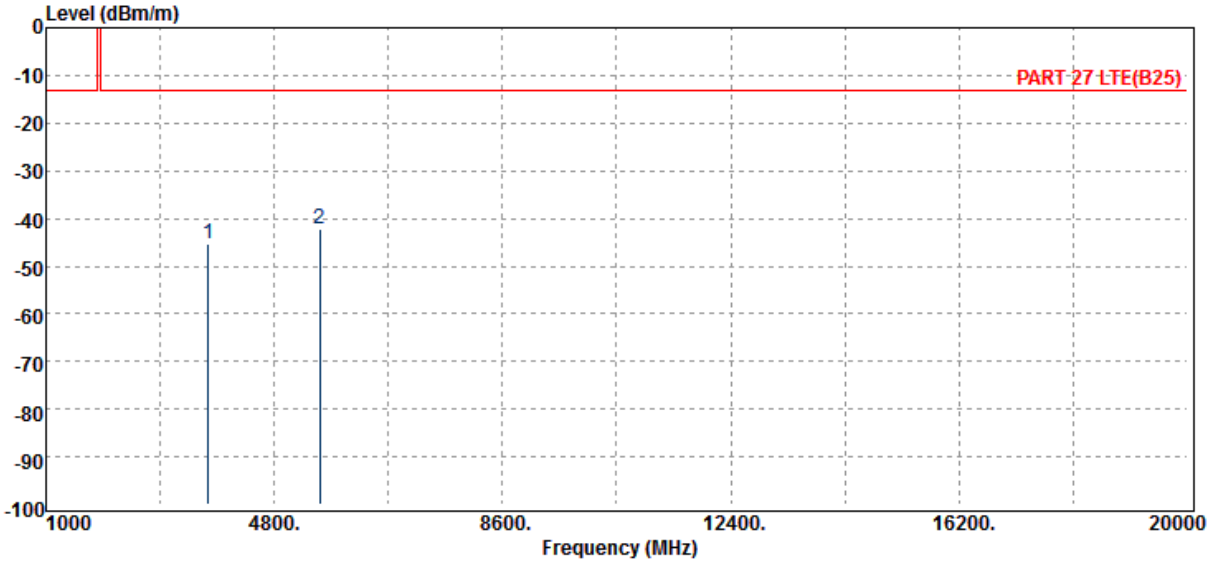
ARFCN	:CH 26065 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3705.00	H	-40.05	-41.58	8.43	-6.89	-13.00	-27.05
5557.50	H	-23.77	-25.33	10.10	-8.54	-13.00	-10.77

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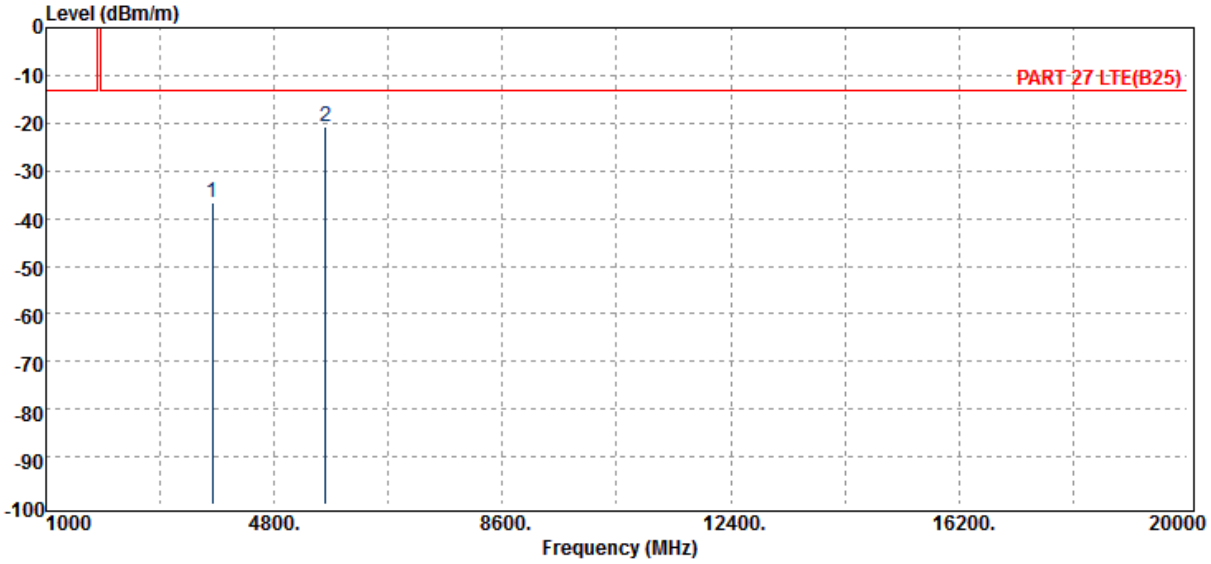
ARFCN	:CH 26065 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1852.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3705.00	H	-45.48	-47.02	8.43	-6.89	-13.00	-32.48
5557.50	H	-42.21	-43.78	10.10	-8.54	-13.00	-29.21

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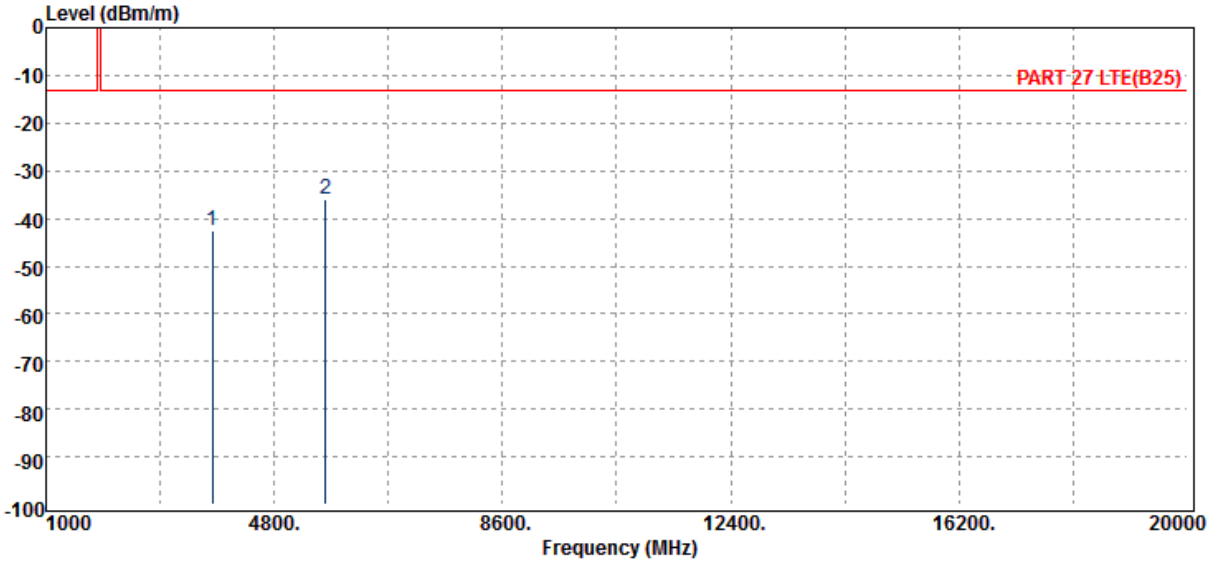
ARFCN	:CH 26365 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3765.00	H	-36.80	-38.23	8.46	-7.03	-13.00	-23.80
5647.50	H	-20.69	-22.21	10.11	-8.59	-13.00	-7.69

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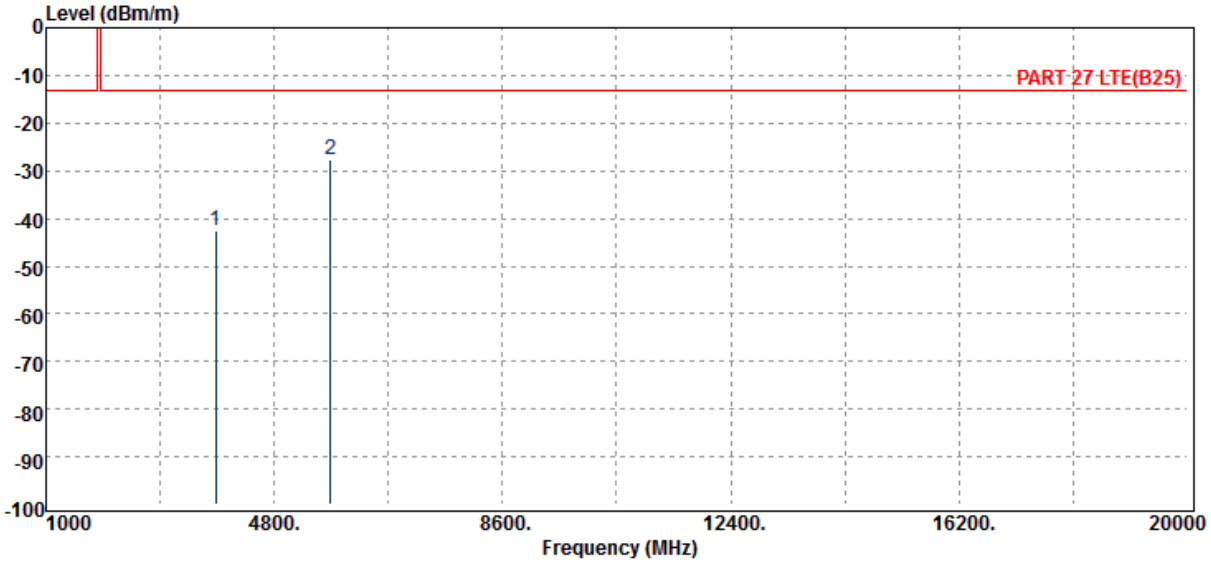
ARFCN	:CH 26365 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1882.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3765.00	H	-42.69	-44.12	8.46	-7.03	-13.00	-29.69
5647.50	H	-35.96	-37.48	10.11	-8.59	-13.00	-22.96

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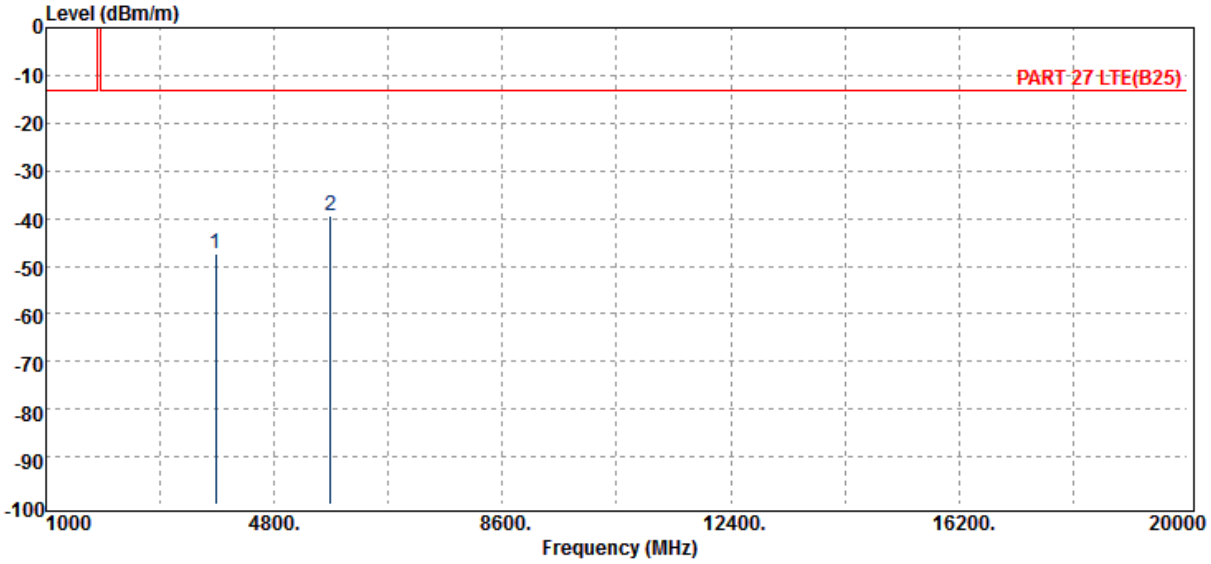
ARFCN	:CH 26665 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1912.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3825.00	H	-42.62	-44.07	8.50	-7.05	-13.00	-29.62
5737.50	H	-27.64	-29.10	10.12	-8.66	-13.00	-14.64

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ARFCN	:CH 26665 16QAM BW 5 RB1 0	Test Date	:2015-08-28
Operation Band	:LTE B25	Temp./Humi.	:22 deg_C / 51 RH
Fundamental Frequency	:1912.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
3825.00	H	-47.28	-48.73	8.50	-7.05	-13.00	-34.28
5737.50	H	-39.59	-41.05	10.12	-8.66	-13.00	-26.59

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9. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

9.1. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section Part 22, subpart H and Part 24, subpart E of the FCC CFR 47 Rules. And Part 90 subpart S For 47 CFR 1.1310 Radio frequency Radiation Exposure requirement.

9.2. Special Accessories

Not available for this EUT intended for grant.

9.3. Equipment Modifications

Not available for this EUT intended for grant.

9.4. Limitation

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*($180/f^2$)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

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Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m^2)	Averaging Time (minutes)
0.003-1	280	2.19	-	6
1-10	$280/f$	$2.19/f$	-	6
10-30	28	$2.19/f$	-	6
30-300	28	0.073	2*	6
300-1500	$1.585\ f^{0.5}$	$0.0042\ f^{0.5}$	$f/150$	6
1500-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000/f^{1.2}$
150000-300000	$0.158\ f^{0.5}$	$4.21 \times 10^{-4}\ f^{0.5}$	$6.67 \times 10^{-5}\ f$	$616000/f^{1.2}$

Note: f is frequency in MHz.
* Power density limit is applicable at frequencies greater than 100 MHz.

Note:

Pre-scanned was done on antenna: GSA.8841.A.105111, and antenna: TG.30.8111 Apex, and antenna GSA.8841.A.105111 results higher emission. Therefore, the completed set of measurement was done on antenna: GSA.8841.A.105111 to presented on this MPE evaluation.

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9.5. Maximum Permissible Exposure (MPE) Evaluation (Antenna Part No.: GSA.8841.A.10511)

The evaluation and calculation as deduces below presents only worst-ca se that produces highest value of the result:

Operation in cellular band (824 – 849 MHz)

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	25.25	3.45	-2.94	25.77	38.45
			H	17.07	3.45	-2.94	17.58	38.45
	836.6	190	V	25.46	3.46	-2.97	**25.95**	38.45
			H	16.88	3.46	-2.97	17.36	38.45
	848.8	251	V	25.20	3.47	-3.01	25.66	38.45
			H	18.13	3.47	-3.01	18.59	38.45

ERP = 25.95 dBm =393.55 mW

Power Density = ERP*Duty Cycle/$(4\pi R^2)$

$= 393.55*0.25/(4*\pi*20^2) = 0.0196$ mW/cm^2

where Duty Cycle is 0.25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 836.6/1500 = 0.56 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in PCS band (1850 – 1910 MHz)

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	26.92	4.84	-4.49	**27.28**	33.01
			H	17.93	4.84	-4.49	18.29	33.01
	1880.0	661	V	26.35	4.79	-4.53	26.62	33.01
			H	23.46	4.79	-4.53	23.73	33.01
	1909.8	810	V	26.36	4.74	-4.57	26.54	33.01
			H	20.89	4.74	-4.57	21.07	33.01

EIRP = 27.28 dBm = 534.56 mW

Power Density = EIRP*Duty Cycle/($4\pi R^2$)

= 534.56*0.25/($4*\pi*20^2$) =0.0266 mW/cm^2

where Duty Cycle is 0. 25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in HSDPA band II (1850 – 1910 MHz)

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**
HSDPA B2	1852.4	9262	V	26.86	4.84	-4.49	27.22	33.01
			H	15.33	4.84	-4.49	15.68	33.01
	1880.0	9400	V	26.86	4.79	-4.53	27.13	33.01
			H	20.93	4.79	-4.53	21.20	33.01
	1907.6	9538	V	27.13	4.75	-4.56	**27.32**	33.01
			H	18.13	4.75	-4.56	18.31	33.01

EIRP = 27.32 dBm = 539.51 mW
Power Density = EIRP*Duty Cycle/($4\pi R^2$)
= 539.51*1/($4*\pi*20^2$) = 0.1073 mW/cm^2
where Duty Cycle is 1 for HSUPA band II mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in HSDPA band IV (1712.4 – 1752.6 MHz)

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**
HSDPA B4	1712.4	1312	V	27.75	5.09	-4.29	28.55	30.00
			H	16.47	5.09	-4.29	17.26	30.00
	1732.6	1413	V	27.34	5.05	-4.31	28.08	30.00
			H	18.05	5.05	-4.31	18.79	30.00
	1752.6	1513	V	28.35	5.01	-4.37	**28.99**	30.00
			H	20.50	5.01	-4.37	21.14	30.00

EIRP = 28.99 dBm = 792.50 mW

Power Density = EIRP*Duty Cycle/($4\pi R^2$)

= 792.50*1/($4*\pi*20^2$) = 0.1577 mW/cm^2

where Duty Cycle is 1 for HSUPA band IV mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in HSDPA band V (826 – 849 MHz)

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**
HSDPA B5	826.4	4132	V	21.11	3.46	-2.95	21.62	38.45
			H	11.55	3.46	-2.94	12.06	38.45
	836.6	4183	V	21.38	3.46	-2.97	**21.87**	38.45
			H	12.42	3.46	-2.97	12.90	38.45
	846.6	4233	V	21.36	3.47	-3.00	21.82	38.45
			H	13.70	3.47	-3.00	14.17	38.45

ERP = 21.87 dBm = 153.82 mW

Power Density = ERP*Duty Cycle/($4\pi R^2$)

= 153.82*1/($4*\pi*20^2$) = 0.0196 mW/cm^2

where Duty Cycle is 1 for HSDPA band V mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 836.6/1500 = 0.56 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in cellular band (824 – 849 MHz)

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**
CDMA BC0	824.7	1013	V	20.49	3.45	-2.94	21.00	38.45
			H	9.98	3.45	-2.94	10.50	38.45
	836.52	384	V	21.05	3.46	-2.97	**21.54**	38.45
			H	10.21	3.46	-2.97	10.70	38.45
	848.31	777	V	19.87	3.47	-3.00	20.33	38.45
			H	9.01	3.47	-3.00	9.47	38.45

ERP = 21.54dBm = 142.56 mW

Power Density = ERP*Duty Cycle/($4\pi R^2$)

= 142.56*1/($4*\pi*20^2$) = 0.0283 mW/cm^2

where Duty Cycle is 1 for CDMA BC0 operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 836.52/1500 = 0.56mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in PCS band (1850 – 1910 MHz)

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**
CDMA BC1	1851.25	25	V	20.92	4.84	-4.49	**21.27**	33.00
			H	9.55	4.84	-4.49	9.91	33.00
	1880.0	600	V	20.06	4.79	-4.53	20.33	33.00
			H	10.99	4.79	-4.53	11.26	33.00
	1908.75	1175	V	16.74	4.75	-4.56	16.92	33.00
			H	6.89	4.75	-4.56	7.07	33.00

EIRP = 21.27 dBm = 133.97 mW

Power Density = EIRP*Duty Cycle/($4\pi R^2$)

= $133.97*1/(4*\pi*20^2) = 0.0267$ mW/cm^2

where Duty Cycle is 1 for CDMA2000 BC1operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in cellular band (817.9 – 823.1 MHz)

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**
CDMA BC10	817.9	476	V	20.60	3.45	-2.92	21.14	50.00
			H	12.12	3.45	-2.92	12.66	50.00
	820.5	580	V	20.84	3.45	-2.93	**21.37**	50.00
			H	9.30	3.45	-2.92	9.83	50.00
	823.1	684	V	20.66	3.45	-2.93	21.18	50.00
			H	4.03	3.45	-2.93	4.55	50.00

ERP = 21.37 dBm = 137.09 mW

Power Density = ERP*Duty Cycle/$(4\pi R^2)$

$= 137.09*1/(4*\pi*20^2) = 0.0273$ mW/cm^2

where Duty Cycle is 1 for CDMA2000 BC10 operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 820.5/1500 = 0.54mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in LTE band (1850.7 – 1909.3 MHz)

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**
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	29.03	4.84	-4.49	**29.38**	33.01
			H	17.21	4.84	-4.49	17.57	33.01
	1880.0	18900	V	28.79	4.80	-4.52	29.06	33.01
			H	16.88	4.79	-4.53	17.14	33.01
	1909.3	19193	V	26.82	4.75	-4.56	27.00	33.01
			H	11.59	4.75	-4.56	11.78	33.01

EIRP = 29.38 dBm = 866.96 mW

Power Density = EIRP*Duty Cycle/($4\pi R^2$)

= 866.96*1/($4*\pi*20^2$) =0.1725 mW/cm^2

where Duty Cycle is 1 for LTE band 2 1.4MHz /16QAM/RB 1 0 offset operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in LTE band (1715.5 – 1747.5 MHz)

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**
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	26.55	5.06	-4.30	27.30	30.00
			H	13.27	5.06	-4.30	14.03	30.00
	1732.5	20175	V	28.37	5.03	-4.34	29.06	30.00
			H	17.91	5.03	-4.34	18.61	30.00
	1747.5	20325	V	28.84	5.01	-4.37	**29.49**	30.00
			H	15.86	5.01	-4.37	16.50	30.00

EIRP = 29.49 dBm = 889.20 mW

Power Density = EIRP*Duty Cycle/($4\pi R^2$)

= 889.20*1/($4*\pi*20^2$) =0.1769mW/cm^2

where Duty Cycle is 1 for LTE band 4 15MHz /16QAM/RB 1 74 offset operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in LTE band (824.7 – 848.3 MHz)

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**
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	21.59	3.46	-2.94	22.10	38.45
			H	17.56	3.46	-2.94	18.08	38.45
	836.5	20525	V	21.88	3.46	-2.97	**22.37**	38.45
			H	15.88	3.46	-2.97	16.37	38.45
	848.3	20643	V	18.36	3.47	-3.01	18.82	38.45
			H	16.48	3.47	-3.00	16.95	38.45

ERP = 22.37 dBm = 172.58 mW

Power Density = ERP*Duty Cycle/$(4\pi R^2)$

= 172.58*1/$(4*\pi*20^2)$ =0.0343mW/cm^2

where Duty Cycle is 1 for LTE band 5 1.4MHz /16QAM/RB 1 0 offset operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 836.5/1500 = 0.56mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in LTE band (782 MHz)

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**
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	22.13	3.38	-2.78	22.73	34.77
			H	15.08	3.38	-2.78	15.68	34.77
	782.0	23230	V	22.19	3.39	-2.79	22.78	34.77
			H	13.90	3.37	-2.77	14.50	34.77
	784.5	23255	V	23.04	3.40	-2.80	**23.64**	34.77
			H	13.18	3.39	-2.80	13.77	34.77

ERP = 23.64 dBm = 231.21 mW

Power Density = ERP*Duty Cycle/($4\pi R^2$)

= 231.21*1/($4*\pi*20^2$) =0.04600mW/cm^2

where Duty Cycle is 1 for LTE band 13 10MHz /16QAM/RB 1 49 offset operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 784.5/1500 = 0.52mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in LTE band (706.5 – 713.5 MHz)

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**
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	20.48	3.37	-2.60	21.25	34.77
			H	16.58	3.37	-2.60	17.35	34.77
	710.0	23790	V	20.60	3.37	-2.60	21.37	34.77
			H	14.39	3.37	-2.60	15.16	34.77
	713.5	23825	V	21.54	3.35	-2.61	**22.29**	34.77
			H	13.93	3.35	-2.61	14.68	34.77

ERP = 22.29 dBm = 169.43 mW

Power Density = ERP*Duty Cycle/$(4\pi R^2)$

= 169.43*1/$(4*\pi*20^2)$ =0.0337mW/cm^2

where Duty Cycle is 1 for LTE band 17 5MHz /16QAM/RB 1 0 offset operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 713.5/1500 = 0.48mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Operation in LTE band (1850.7 – 1914.3 MHz)

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**
BAND 25 BW: 1.4M 16QAM RB: 1,5	1850.7	26047	V	29.12	4.84	-4.49	29.47	33.00
			H	21.33	4.84	-4.49	21.68	33.00
	1882.5	26365	V	29.91	4.79	-4.53	30.18	33.00
			H	19.00	4.79	-4.53	19.26	33.00
	1914.3	26683	V	30.07	4.74	-4.57	**30.24**	33.00
			H	18.15	4.74	-4.57	18.32	33.00

EIRP = 30.24 dBm = 1056.82 mW

Power Density = EIRP*Duty Cycle/($4\pi R^2$)

= 1056.82*1/($4*\pi*20^2$) =0.2102mW/cm^2

where Duty Cycle is 1 for LTE band 25 1.4MHz /16QAM/RB 1 5 offset operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, this is compliant with the FCC rules on RF exposure.

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Collocated MPE analysis:

The modem may transmit simultaneously with other collocated radio transmitters within a host device, provided the following conditions are met:

- Each collocated radio transmitter has been certified by FCC/IC for mobile application (that will be met since SQNS module will have its own FCC ID and host device will have its own FCC ID)
- At least 20 cm separation distance between the antennas of the collocated transmitters and the user's body must be maintained at all times (host installation should taking care of that)

The output power and antenna gain in a collocated configuration must not exceed the limits and configurations stipulated in the following table 1. The power density calculations for the individual transmitters per wireless technology at an exposure minimum separation distance of 20cm.

Exclusion of test condition:

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on calculated or measured field strengths or power density, is ≤ 1.0.

ΣMPE ratio1 + MPE ratio2+MPE ration <=1.0

The spreadsheet as FCC deduces, and releases is employed to conduct the measurement:

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Table 1 : Collocated MPE Calculation (Worse-case table)

Technology	Frequency (MHz)	Max Conducted Power (dBm)	Max Gain (dBi)	Duty Cycle	FCC Power Density @20cm (mW/cm^2)	FCC MPE Limit (mW/cm^2)
LTE B13	782.0	23.76	1.65	1.00	0.069	0.521
WCDMA B5	826.4	23.53	1.65	1.00	0.065	0.549
WCDMA B4	1712.4	23.86	4.76	1.00	0.145	1.000
LTE B2	1909.3	23.79	4.76	1.00	0.143	1.000
WLAN (2.4GHz)	2462	19.92	4.25	0.99	0.510	1.000
WLAN (2.4GHz MIMO)	2462	16.42	7.26	0.97	0.045	1.000
WLAN (5GHz)	5500	15.32	5.5	0.97	0.023	1.000
WLAN (5GHz MIMO)	5500	18.64	8.51	0.97	0.100	1.000
BT LE	2402	-1.30	0.5	0.60	0.0001	1.000

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Scenario 1:

External Antenna:

Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 700)

WLAN (mW/cm^2)	WLAN / MPE limit	(WLAN) / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 700 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 700MHz) / MPE limit	(WWAN 700MHz +WLAN+ BLE)	FCC Limit (mW/cm^2)
0.510	1.00	0.510	0.0001	1.00	0.0001	0.069	0.521	0.132	0.6421	1.000

Scenario 2:

External Antenna:

Wifi n_MIMO 2.4G + Bluetooth LE+ 2/3/4G (frequency band 700)

WLAN (mW/cm^2)	WLAN MIMO / MPE limit	(WLAN) MIMO / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 700 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 700MHz) / MPE limit	(WWAN 700MHz +WLAN MIMO + BLE)	FCC Limit (mW/cm^2)
0.045	1.00	0.045	0.0001	1.00	0.0001	0.069	0.521	0.132	0.1771	1.000

Scenario 3:

External Antenna:

Wifi a + Bluetooth LE + 2/3/4G (frequency band 700)

WLAN (mW/cm^2)	WLAN / MPE limit	(WLAN) / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 700 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 700MHz) / MPE limit	(WWAN 700MHz +WLAN MIMO + BLE)	FCC Limit (mW/cm^2)
0.023	1.00	0.023	0.0001	1.00	0.0001	0.069	0.521	0.132	0.1551	1.000

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Scenario 4:
External Antenna:
Wifi n_MIMO 5G + Bluetooth LE + 2/3/4G (frequency band 700)

WLAN MIMO (mW/cm^2)	WLAN MIMO / MPE limit	(WLAN) MIMO / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 700 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 700MHz) / MPE limit	(WWAN 700MHz +WLAN MIMO + BLE)	FCC Limit (mW/cm^2)
0.100	1.00	0.100	0.0001	1.00	0.0001	0.069	0.521	0.132	0.2321	1.000

Scenario 5:
External Antenna:
Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 850)

WLAN (mW/cm^2)	WLAN / MPE limit	(WLAN) / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 850 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 850MHz) / MPE limit	(WWAN 850MHz +WLAN+ BLE)	FCC Limit (mW/cm^2)
0.510	1.00	0.510	0.0001	1.00	0.0001	0.065	0.549	0.118	0.6281	1.000

Scenario 6:
External Antenna:
Wifi n_MIMO 2.4G + Bluetooth LE+ 2/3/4G (frequency band 850)

WLAN MIMO (mW/cm^2)	WLAN MIMO / MPE limit	(WLAN) MIMO / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 850 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 850MHz) / MPE limit	(WWAN 850MHz +WLAN MIMO + BLE)	FCC Limit (mW/cm^2)
0.045	1.00	0.045	0.0001	1.00	0.0001	0.065	0.549	0.118	0.1631	1.000

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Scenario 7:
External Antenna:
Wifi a + Bluetooth LE+ 2/3/4G (frequency band 850)

WLAN (mW/cm^2)	WLAN / MPE limit	(WLAN) / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 850 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 850MHz) / MPE limit	(WWAN 850MHz +WLAN+ BLE)	FCC Limit (mW/cm^2)
0.023	1.00	0.023	0.0001	1.00	0.0001	0.065	0.549	0.118	0.1411	1.000

Scenario 8:
External Antenna:
Wifi n_MIMO 5G + Bluetooth LE+ 2/3/4G (frequency band 850)

WLAN MIMO (mW/cm^2)	WLAN MIMO / MPE limit	(WLAN) MIMO / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 850 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 850MHz) / MPE limit	(WWAN 850MHz +WLAN MIMO + BLE)	FCC Limit (mW/cm^2)
0.100	1.00	0.100	0.0001	1.00	0.0001	0.065	0.549	0.118	0.2181	1.000

Scenario 9:
External Antenna:
Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 1700)

WLAN (mW/cm^2)	WLAN / MPE limit	(WLAN) / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 1700 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 1700MHz) / MPE limit	(WWAN 1700MHz +WLAN+ BLE)	FCC Limit (mW/cm^2)
0.510	1.00	0.510	0.0001	1.00	0.0001	0.145	1.00	0.145	0.6551	1.000

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Scenario 10:
External Antenna:
Wifi n_MIMO 2.4G + Bluetooth LE+ 2/3/4G (frequency band 1700)

WLAN MIMO (mW/cm^2)	WLAN MIMO / MPE limit	(WLAN) MIMO / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 1700 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 1700MHz) / MPE limit	(WWAN 1700MHz +WLAN MIMO + BLE)	FCC Limit (mW/cm^2)
0.045	1.00	0.045	0.0001	1.00	0.0001	0.145	1.00	0.145	0.1901	1.000

Scenario 11:
External Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 1700)

WLAN (mW/cm^2)	WLAN / MPE limit	(WLAN) / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 1700 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 1700MHz) / MPE limit	(WWAN 1700MHz +WLAN+ BLE)	FCC Limit (mW/cm^2)
0.023	1.00	0.023	0.0001	1.00	0.0001	0.145	1.00	0.145	0.1681	1.000

Scenario 12:
External Antenna:
Wifi n_MIMO 5G + Bluetooth LE + 2/3/4G (frequency band 1700)

WLAN MIMO (mW/cm^2)	WLAN MIMO / MPE limit	(WLAN) MIMO / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 1700 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 1700MHz) / MPE limit	(WWAN 1700MHz +WLAN MIMO + BLE)	FCC Limit (mW/cm^2)
0.100	1.00	0.100	0.0001	1.00	0.0001	0.145	1.00	0.145	0.2451	1.000

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Scenario 13:
External Antenna:
Wifi b or g + Bluetooth LE + 2/3/4G (frequency band 1900)

WLAN (mW/cm^2)	WLAN / MPE limit	(WLAN) / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 1900 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 1900MHz) / MPE limit	(WWAN 1900MHz +WLAN+ BLE)	FCC Limit (mW/cm^2)
0.510	1.00	0.510	0.0001	1.00	0.0001	0.143	1.00	0.143	0.6531	1.000

Scenario 14:
External Antenna:
Wifi n_MIMO 2.4G + Bluetooth LE+ 2/3/4G (frequency band 1900)

WLAN MIMO (mW/cm^2)	WLAN MIMO / MPE limit	(WLAN) MIMO / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 1900 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 1900MHz) / MPE limit	(WWAN 1900MHz +WLAN MIMO + BLE)	FCC Limit (mW/cm^2)
0.510	1.00	0.510	0.0001	1.00	0.0001	0.143	1.00	0.143	0.6531	1.000

Scenario 15:
External Antenna:
Wifi a + Bluetooth LE + 2/3/4G (frequency band 1900)

WLAN (mW/cm^2)	WLAN / MPE limit	(WLAN) / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 1900 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 1900MHz) / MPE limit	(WWAN 1900MHz +WLAN+ BLE)	FCC Limit (mW/cm^2)
0.023	1.00	0.023	0.0001	1.00	0.0001	0.143	1.00	0.143	0.1661	1.000

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Scenario 16:
External Antenna:
Wifi n_MIMO 5G + Bluetooth LE + 2/3/4G (frequency band 1900)

WLAN MIMO (mW/cm^2)	WLAN MIMO / MPE limit	(WLAN) MIMO / MPE limit	BLE (mW/cm^2)	BLE / MPE limit	(BLE) / MPE limit	WWAN 1900 MHz (mW/cm^2)	FCC MPE limit (mW/cm^2)	(WWAN 1900MHz) / MPE limit	(WWAN 1900MHz +WLAN MIMO + BLE)	FCC Limit (mW/cm^2)
0.100	1.00	0.100	0.0001	1.00	0.0001	0.143	1.00	0.143	0.2431	1.000

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