



FCC RADIO TEST REPORT

FCC ID : A4RGUL82
Equipment : Phone
Model Name : GUL82
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA, 94043 USA
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on Nov. 27, 2024 and testing was performed from Jan. 02, 2025 to Mar. 10, 2025. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG4N0918A	01	Initial issue of report	Mar. 19, 2025
FG4N0918A	02	Revised Appendix A3 This report is an updated version, replacing the report issued on Mar. 19, 2025	May 02, 2025
FG4N0918A	03	Revised Appendix B This report is an updated version, replacing the report issued on May 02, 2025	May 13, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(5)	Effective Radiated Power (GSM850) (WCDMA Band V)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (GSM1900) (WCDMA Band II)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
3.3	§24.232 (d)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (GSM850) (WCDMA Band V) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (GSM850) (WCDMA Band V) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (GSM850) (WCDMA Band V) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (GSM850) (WCDMA Band V) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	-

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: William Chen

Report Producer: Mila Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR/NTN , Bluetooth, BLE, BLE channel sounding, Thread, Wi-Fi 802.11be, NFC, WPC Rx, UWB and GNSS Rx.
Antenna Type WWAN: <Ant. 0>: ILA Antenna <Ant. 1>: ILA Antenna <Ant. 2>: IFA Antenna

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

Antenna information					
Band	Ant0	Ant1	Ant2	Main Ant. #	Sub Ant. #
GSM 850	-3.6	-5.9	-	0	1
GSM 1900	-0.2	-	-1.9	2	0
WCDMA B5	-3.6	-5.9	-	0	1
WCDMA B2	-0.2	-	-1.9	2	0
WCDMA B4	-1.2	-	-0.8	2	0

Remark:

1. For Test Items, Main Ant. means Tx0 and Sub Ant. means Tx1.
2. After preliminary scan, the main antenna Ant 0 for Low band and main antenna Ant 2 for Mid/high band are selected as the worst mode to be reported for conducted test.

EUT Information List	
S/N	Performed Test Item
4B151FDCQ00078	Conducted Measurement ERP/EIRP
4B161FDCQ0008N	Radiated Spurious Emission

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Eric Wu
Temperature (°C)	19.9~21.9
Relative Humidity (%)	46.5~48.5

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH15-HY (TAF Code: 3786)
Test Engineer	Sam Pan, Quentin Liu, and Bigshow Wang
Temperature (°C)	22.0~23.5
Relative Humidity (%)	50.0~59.0
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

ISED Company Number: 4086B and 4086H



1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V
2. 30 MHz to 18000 MHz for WCDMA Band IV
3. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II

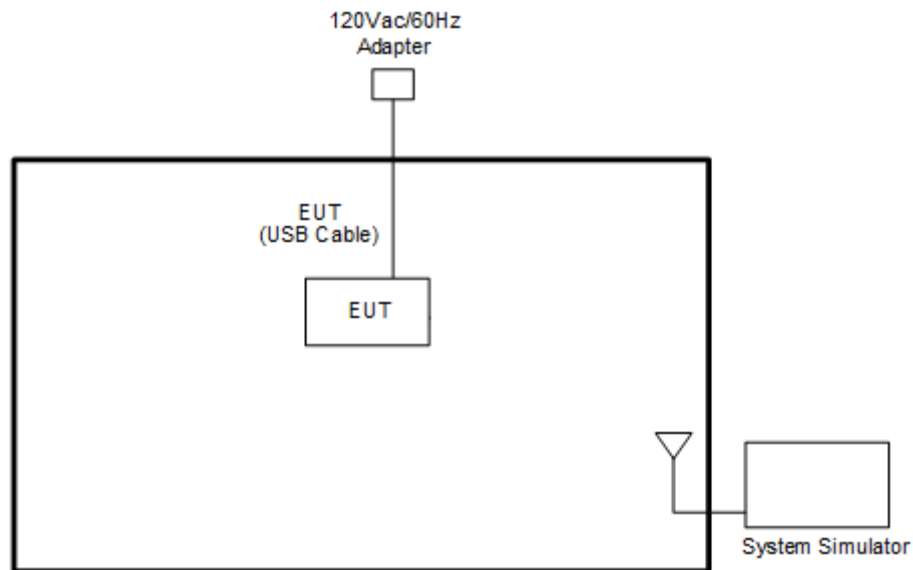
All modes, data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM850	■ GPRS Class 8 Link	■ GPRS Class 8 Link
	■ EDGE Class 8 Link	■ EDGE Class 8 Link
GSM1900	■ GPRS Class 8 Link	■ GPRS Class 8 Link
	■ EDGE Class 8 Link	■ EDGE Class 8 Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

Remark: All the radiated test cases were performed with USB Cable 2.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

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 attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

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

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.2 dB and a 10 dB attenuator.

Example:

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
GSM850	Channel	128	189	251
	Frequency	824.2	836.4	848.8
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
GSM1900	Channel	512	661	810
	Frequency	1850.2	1880.0	1909.8
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6

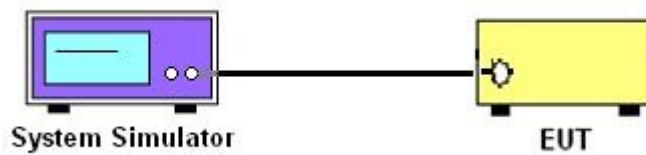
3 Conducted Test Result

3.1 Measuring Instruments

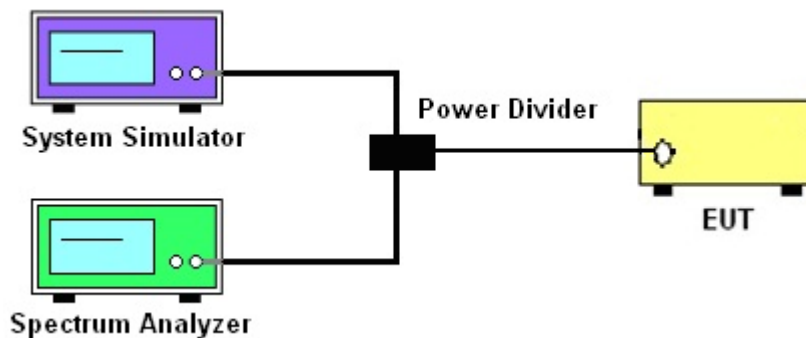
Please refer to the measuring equipment list in this test report.

3.1.1 Test Setup

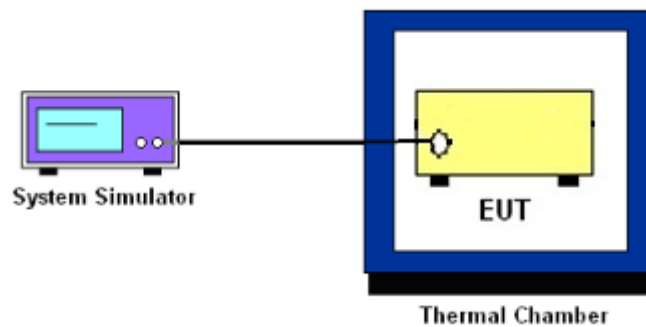
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

1. The transmitter output port is connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select the lowest, middle, and the highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

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

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT is connected to spectrum analyzer and system simulator via a power divider.
2. Set EUT to transmit at maximum output power.
3. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer.
5. Record the maximum PAPR level associated with a probability of 0.1%.

3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT is connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(This is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

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

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT is connected to the spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT is connected to the spectrum analyzer by an RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. The band edges of low and high channels for the highest RF powers are measured.
4. The RF fundamental frequency shall be excluded against the limit line in the operating frequency band.
5. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT is connected to the spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT is connected to the spectrum analyzer by an RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency is measured.
4. The conducted spurious emission for the whole frequency range is taken.
5. The RF fundamental frequency shall be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

24.235 & 27.54

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

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT is set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature is decreased to -30°C and the EUT is stabilized before testing. Power is applied and the maximum change in frequency is recorded within one minute.
3. With power OFF, the temperature is raised in 10°C steps up to 50°C . The EUT is stabilized at each step for at least half an hour. Power is applied and the maximum frequency change is recorded within one minute.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT is placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT is varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency is measured for the worst case.

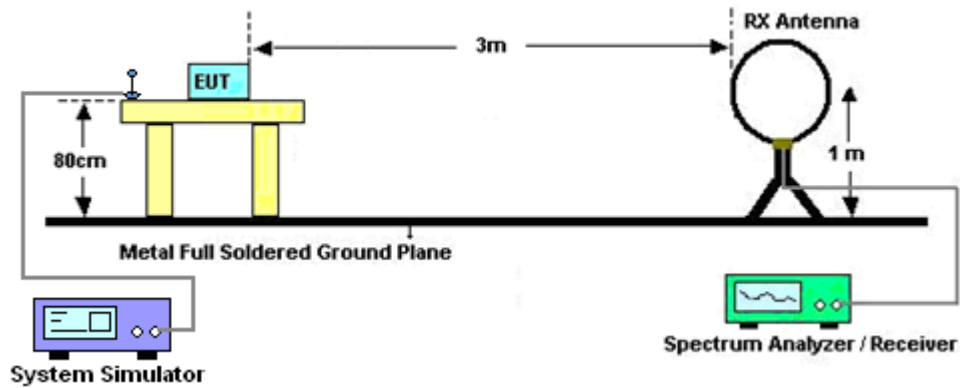
4 Radiated Test Items

4.1 Measuring Instruments

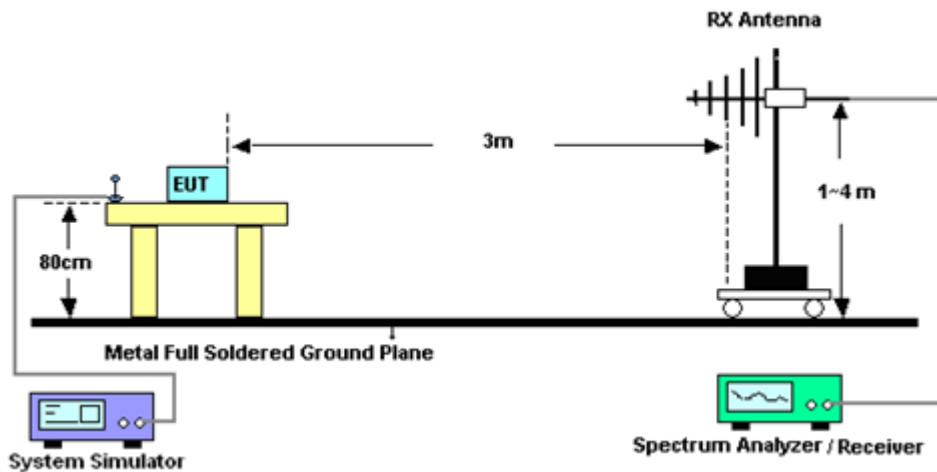
Please refer to the measuring equipment list in this test report.

4.2 Test Setup

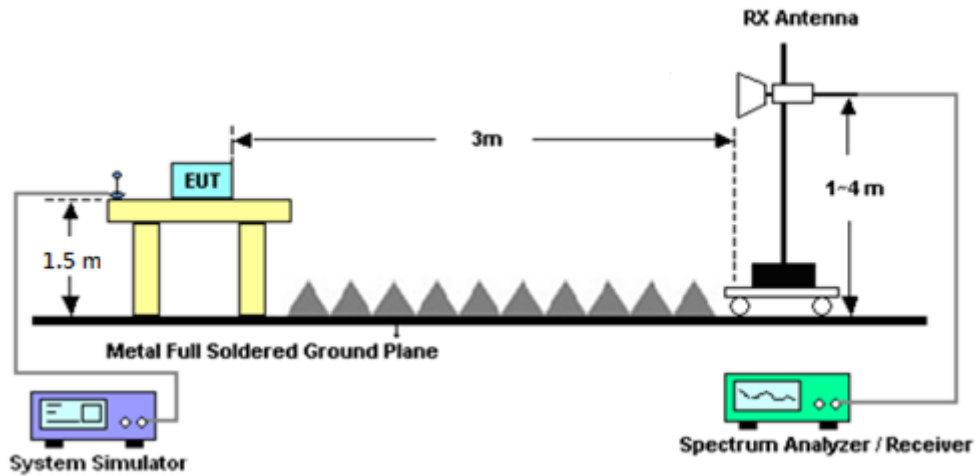
For radiated test below 30MHz



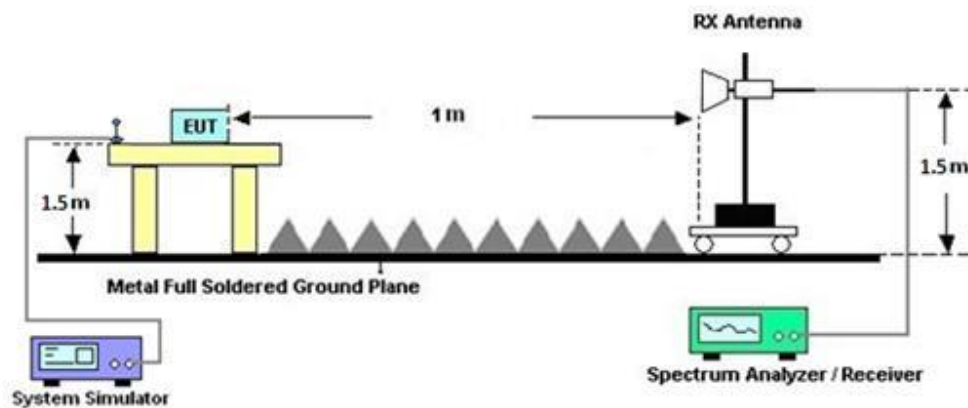
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT is placed on a rotatable wooden table 0.8 meters for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz above the ground.
2. The EUT is set 3 meters away from the receiving antenna, which is mounted on the antenna tower.
3. The table is rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1 MHz, VBW = 3 MHz, taking record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency shall be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Jan. 02, 2025~ Jan. 25, 2025	Feb. 22, 2025	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	41912 & 05	30MHz~1GHz	Feb. 04, 2024	Jan. 02, 2025~ Jan. 25, 2025	Feb. 03, 2025	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 20, 2024	Jan. 02, 2025~ Jan. 25, 2025	Jun. 19, 2025	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1230	18GHz~40GHz	Oct. 25, 2024	Jan. 02, 2025~ Jan. 25, 2025	Oct. 24, 2025	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 24, 2024	Jan. 02, 2025~ Jan. 25, 2025	Dec. 23, 2025	Radiation (03CH15-HY)
Preamplifier	EMEC	EM01G18G	060837	1GHz~18GHz	Feb. 15, 2024	Jan. 02, 2025~ Jan. 25, 2025	Feb. 14, 2025	Radiation (03CH15-HY)
Preamplifier	EM Electronics	EM01G18G	060802	1GHz~18GHz	Feb. 29, 2024	Jan. 02, 2025~ Jan. 25, 2025	Feb. 28, 2025	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Jan. 02, 2025~ Jan. 25, 2025	May 26, 2025	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9010B	MY60241058	10Hz~44GHz	Jul. 11, 2024	Jan. 02, 2025~ Jan. 25, 2025	Jul. 10, 2025	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 02, 2025~ Jan. 25, 2025	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 02, 2025~ Jan. 25, 2025	N/A	Radiation (03CH15-HY)
Software	Audix	E3_V9_23062 1	RK-002394	N/A	N/A	Jan. 02, 2025~ Jan. 25, 2025	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY582185/4, 519228/2,80 3950/2	N/A	Jun. 11, 2024	Jan. 02, 2025~ Jan. 25, 2025	Jun. 10, 2025	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	18-40G	Dec. 31, 2024	Jan. 02, 2025~ Jan. 25, 2025	Dec. 30, 2025	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN6	3GHz High Pass Filter	Jun. 05, 2024	Jan. 02, 2025~ Jan. 25, 2025	Jun. 04, 2025	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 0ST	SN5	1.2GHz High Pass Filter	Jun. 04, 2024	Jan. 02, 2025~ Jan. 25, 2025	Jun. 03, 2025	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN6	6.75GHz High Pass Filter	Jun. 05, 2024	Jan. 02, 2025~ Jan. 25, 2025	Jun. 04, 2025	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-900- 1000-15000-6 0SS	SN12	1GHz High Pass Filter	Sep. 10, 2024	Jan. 02, 2025~ Jan. 25, 2025	Sep. 09, 2025	Radiation (03CH15-HY)
Filter	Wainwright	WLJ4-1000-15 30-6000-40ST	SN4	1.53GHz Low Pass Filter	Jun. 05, 2024	Jan. 02, 2025~ Jan. 25, 2025	Jun. 04, 2025	Radiation (03CH15-HY)
Hygrometer	TECPEL	DTM-302	SN4	N/A	Aug. 29, 2024	Jan. 02, 2025~ Jan. 25, 2025	Aug. 28, 2025	Radiation (03CH15-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 25, 2024	Jan. 25, 2025~ Mar. 10, 2025	Sep. 24, 2025	Conducted (TH03-HY)
DC Power Supply	GW Instek	GPE-2323	GEU871221	0V~64V ; 0A~6A	Apr. 09, 2024	Jan. 25, 2025~ Mar. 10, 2025	Apr. 08, 2025	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Aug. 08, 2024	Jan. 25, 2025~ Mar. 10, 2025	Aug. 07, 2025	Conducted (TH03-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	SH-641	92013720	-40°C~90°C	Sep. 06, 2024	Jan. 25, 2025~ Mar. 10, 2025	Sep. 05, 2025	Conducted (TH03-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Jan. 25, 2025~ Mar. 10, 2025	Oct. 31, 2025	Conducted (TH03-HY)

6 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.3 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.4 dB
---	--------

Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) & ERP / EIRP

<Tx0>

GSM850 Maximum Average Power [dBm] (GT - LC = -3.6 dB)					
Channel	128	189	251	ERP (dBm)	ERP (W)
Frequency	824.2	836.4	848.8		
GSM	31.99	32.05	32.15	26.40	0.4365
GPRS class 8	32.02	32.12	32.15		
GPRS class 10	30.91	31.43	31.48		
GPRS class 11	30.11	30.18	30.22		
GPRS class 12	29.25	29.35	29.35		
EGPRS class 8	26.23	26.19	26.52	20.77	0.1194
EGPRS class 10	24.81	25.21	25.32		
EGPRS class 11	23.80	24.12	24.14		
EGPRS class 12	22.77	22.85	22.90		
Limit	ERP < 7W			Result	Pass

GSM1900 Maximum Average Power [dBm] (GT - LC = -1.9 dB)					
Channel	512	661	810	EIRP (dBm)	EIRP (W)
Frequency	1850.2	1880	1909.8		
GSM	28.85	28.82	28.99	27.13	0.5164
GPRS class 8	28.91	28.87	29.03		
GPRS class 10	27.32	27.33	27.38		
GPRS class 11	27.05	27.10	27.13		
GPRS class 12	25.72	26.06	26.17		
EGPRS class 8	25.32	25.31	25.58	23.68	0.2333
EGPRS class 10	24.32	24.29	24.48		
EGPRS class 11	23.62	23.47	23.54		
EGPRS class 12	21.87	21.89	21.82		
Limit	EIRP < 2W			Result	Pass



WCDMA Band V Maximum Average Power [dBm] (GT - LC = -3.6 dB)					
Channel	4132	4182	4233	ERP (dBm)	ERP (W)
Frequency	826.4	836.4	846.6		
RMC 12.2K	24.57	24.41	24.35		
HSDPA Subtest-1	24.56	24.54	24.38		
HSDPA Subtest-2	24.56	24.51	24.36		
HSDPA Subtest-3	23.30	23.22	23.19		
HSDPA Subtest-4	23.29	23.21	23.07		
HSUPA Subtest-1	23.65	23.43	23.26		
HSUPA Subtest-2	21.20	21.18	21.02		
HSUPA Subtest-3	23.64	23.64	23.34		
HSUPA Subtest-4	21.41	21.26	20.98		
HSUPA Subtest-5	24.50	24.50	24.30		
Limit	ERP < 7W			Result	Pass

WCDMA Band II Maximum Average Power [dBm] (GT - LC = -1.9 dB)					
Channel	9262	9400	9538	EIRP (dBm)	EIRP (W)
Frequency	1852.4	1880	1907.6		
RMC 12.2K	24.15	23.91	23.76		
HSDPA Subtest-1	24.10	23.95	23.77		
HSDPA Subtest-2	24.11	23.98	23.79		
HSDPA Subtest-3	23.11	22.96	22.78		
HSDPA Subtest-4	23.11	22.97	22.86		
HSUPA Subtest-1	23.27	23.15	22.79		
HSUPA Subtest-2	21.13	20.88	20.85		
HSUPA Subtest-3	23.20	22.97	22.82		
HSUPA Subtest-4	21.12	21.08	20.80		
HSUPA Subtest-5	24.30	24.10	24.00		
Limit	EIRP < 2W			Result	Pass

WCDMA Band IV Maximum Average Power [dBm] (GT - LC = -0.8 dB)					
Channel	1312	1413	1513	EIRP (dBm)	EIRP (W)
Frequency	1712.4	1732.6	1752.6		
RMC 12.2K	24.19	24.07	23.95		
HSDPA Subtest-1	24.17	24.10	24.00		
HSDPA Subtest-2	24.18	24.11	24.01		
HSDPA Subtest-3	23.26	23.27	23.06		
HSDPA Subtest-4	23.27	23.17	23.05		
HSUPA Subtest-1	23.31	23.09	23.10		
HSUPA Subtest-2	21.14	21.08	20.98		
HSUPA Subtest-3	23.42	23.10	23.13		
HSUPA Subtest-4	21.11	21.04	21.06		
HSUPA Subtest-5	24.20	24.10	23.90		
Limit	EIRP < 1W			Result	Pass



Conducted Output Power(Average power) & ERP / EIRP

<Tx1>

GSM850 Maximum Average Power [dBm] (GT - LC = -5.9 dB)					
Channel	128	189	251	ERP (dBm)	ERP (W)
Frequency	824.2	836.4	848.8		
GSM	31.82	31.84	31.77	23.80	0.2399
GPRS class 8	31.84	31.85	31.78		
GPRS class 10	30.85	31.24	31.18		
GPRS class 11	30.03	30.03	29.98		
GPRS class 12	29.00	29.18	29.07		
EGPRS class 8	26.08	26.08	25.96	18.03	0.0635
EGPRS class 10	24.72	24.99	24.91		
EGPRS class 11	23.70	23.68	23.54		
EGPRS class 12	22.45	22.34	22.24		
Limit	ERP < 7W			Result	Pass

GSM1900 Maximum Average Power [dBm] (GT - LC = -0.2 dB)					
Channel	512	661	810	EIRP (dBm)	EIRP (W)
Frequency	1850.2	1880	1909.8		
GSM	28.68	28.85	29.00	28.81	0.7603
GPRS class 8	28.69	28.86	29.01		
GPRS class 10	27.03	27.34	27.42		
GPRS class 11	26.67	26.91	26.96		
GPRS class 12	25.61	25.64	25.79		
EGPRS class 8	25.03	25.19	25.52	25.32	0.3404
EGPRS class 10	24.13	24.29	24.36		
EGPRS class 11	23.34	23.68	23.56		
EGPRS class 12	22.04	22.23	22.11		
Limit	EIRP < 2W			Result	Pass



WCDMA Band V Maximum Average Power [dBm] (GT - LC = -5.9 dB)					
Channel	4132	4182	4233	ERP (dBm)	ERP (W)
Frequency	826.4	836.4	846.6		
RMC 12.2K	24.23	24.22	24.01		
HSDPA Subtest-1	24.31	24.17	24.02		
HSDPA Subtest-2	24.30	24.13	24.02		
HSDPA Subtest-3	22.94	22.81	22.83		
HSDPA Subtest-4	23.46	23.25	23.13		
HSUPA Subtest-1	23.31	23.32	23.30		
HSUPA Subtest-2	22.01	22.69	21.56		
HSUPA Subtest-3	23.03	22.71	22.72		
HSUPA Subtest-4	21.97	21.80	21.52		
HSUPA Subtest-5	24.30	24.10	23.90		
Limit	ERP < 7W			Result	Pass

WCDMA Band II Maximum Average Power [dBm] (GT - LC = -0.2 dB)					
Channel	9262	9400	9538	EIRP (dBm)	EIRP (W)
Frequency	1852.4	1880	1907.6		
RMC 12.2K	23.82	23.72	23.59		
HSDPA Subtest-1	23.81	23.65	23.64		
HSDPA Subtest-2	23.80	23.72	23.67		
HSDPA Subtest-3	23.81	23.71	23.68		
HSDPA Subtest-4	23.29	23.16	23.14		
HSUPA Subtest-1	23.06	22.82	22.81		
HSUPA Subtest-2	22.69	20.88	20.82		
HSUPA Subtest-3	23.00	21.82	21.85		
HSUPA Subtest-4	22.69	22.66	22.68		
HSUPA Subtest-5	23.80	23.80	23.60		
Limit	EIRP < 2W			Result	Pass

WCDMA Band IV Maximum Average Power [dBm] (GT - LC = -1.2 dB)					
Channel	1312	1413	1513	EIRP (dBm)	EIRP (W)
Frequency	1712.4	1732.6	1752.6		
RMC 12.2K	23.84	23.72	23.60		
HSDPA Subtest-1	23.80	23.75	23.63		
HSDPA Subtest-2	23.82	23.75	23.66		
HSDPA Subtest-3	23.36	23.26	23.18		
HSDPA Subtest-4	23.83	23.75	23.67		
HSUPA Subtest-1	22.81	22.82	22.81		
HSUPA Subtest-2	20.86	20.87	22.29		
HSUPA Subtest-3	22.32	22.02	22.08		
HSUPA Subtest-4	21.82	22.31	22.48		
HSUPA Subtest-5	23.80	23.60	23.60		
Limit	EIRP < 1W			Result	Pass

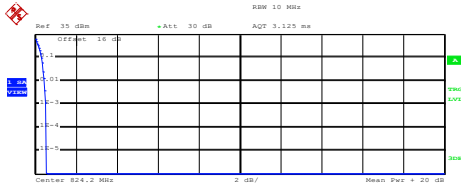
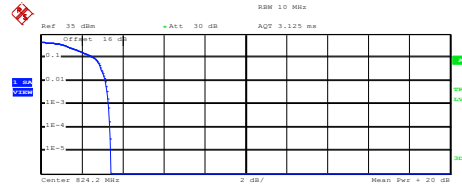
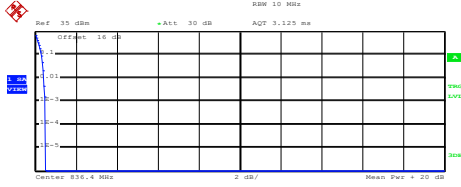
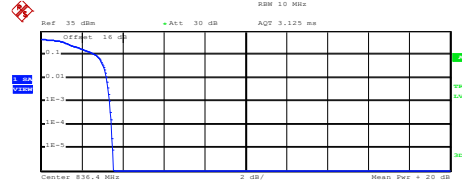
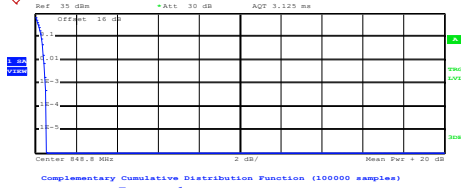
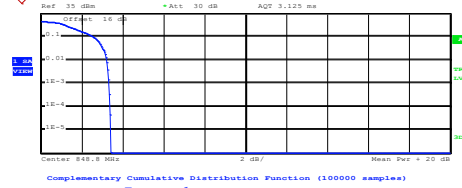
A2. GSM

Peak-to-Average Ratio

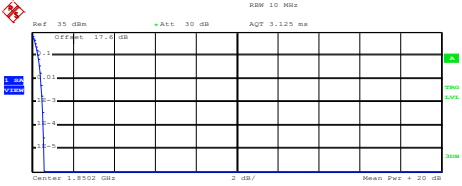
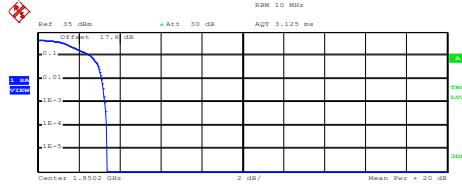
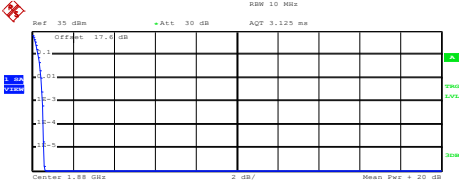
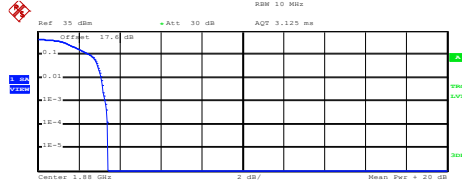
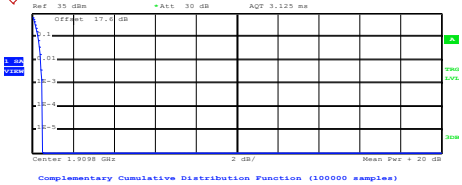
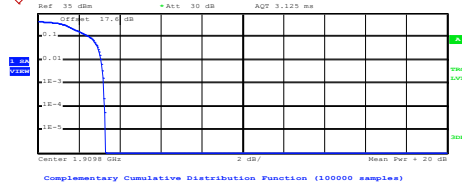
Mode	GSM850		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.52	3.32	PASS
Middle CH	0.48	3.36	
Highest CH	0.52	3.32	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.52	3.28	PASS
Middle CH	0.52	3.28	
Highest CH	0.48	3.20	



GSM850 (GPRS class 8)		GSM850 (EDGE class 8)	
Lowest Channel		Lowest Channel	
 Center 824.2 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 31.82 dBm Peak 32.36 dBm Crest 0.54 dB 10 % 0.32 dB 1 % 0.44 dB .1 % 0.52 dB .01 % 0.56 dB Date: 25.JAN.2025 12:09:05		 Center 824.2 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 26.77 dBm Peak 30.17 dBm Crest 3.40 dB 10 % 2.60 dB 1 % 3.16 dB .1 % 3.32 dB .01 % 3.40 dB Date: 25.JAN.2025 19:21:00	
Middle Channel		Middle Channel	
 Center 836.4 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 32.20 dBm Peak 32.71 dBm Crest 0.51 dB 10 % 0.32 dB 1 % 0.44 dB .1 % 0.48 dB .01 % 0.52 dB Date: 25.JAN.2025 12:09:23		 Center 836.4 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 26.78 dBm Peak 30.31 dBm Crest 3.53 dB 10 % 2.68 dB 1 % 3.20 dB .1 % 3.36 dB .01 % 3.44 dB Date: 25.JAN.2025 19:21:16	
Highest Channel		Highest Channel	
 Center 848.8 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 32.32 dBm Peak 32.85 dBm Crest 0.53 dB 10 % 0.32 dB 1 % 0.44 dB .1 % 0.52 dB .01 % 0.56 dB Date: 25.JAN.2025 12:09:38		 Center 848.8 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 26.91 dBm Peak 30.31 dBm Crest 3.40 dB 10 % 2.60 dB 1 % 3.24 dB .1 % 3.32 dB .01 % 3.40 dB Date: 25.JAN.2025 19:21:31	

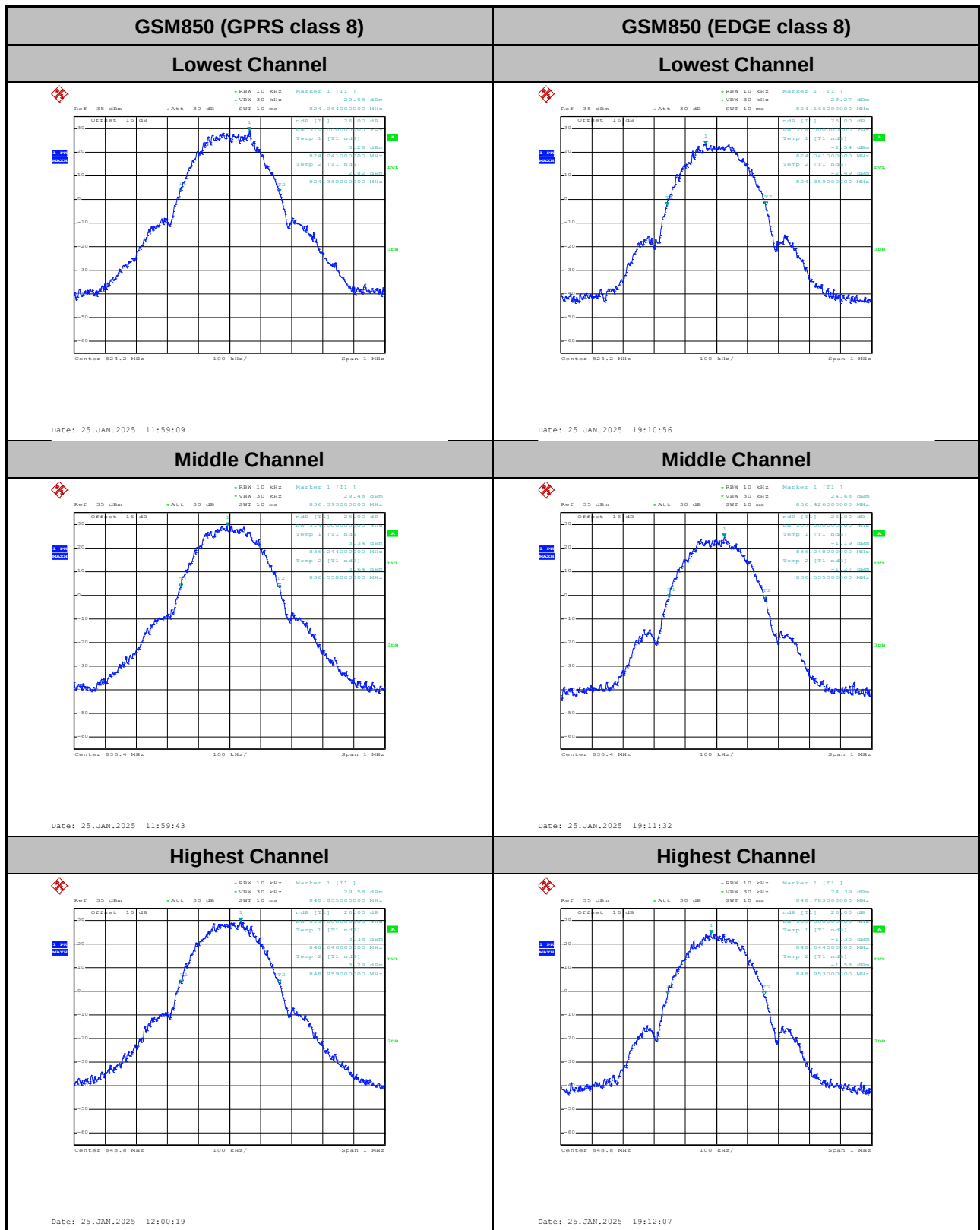


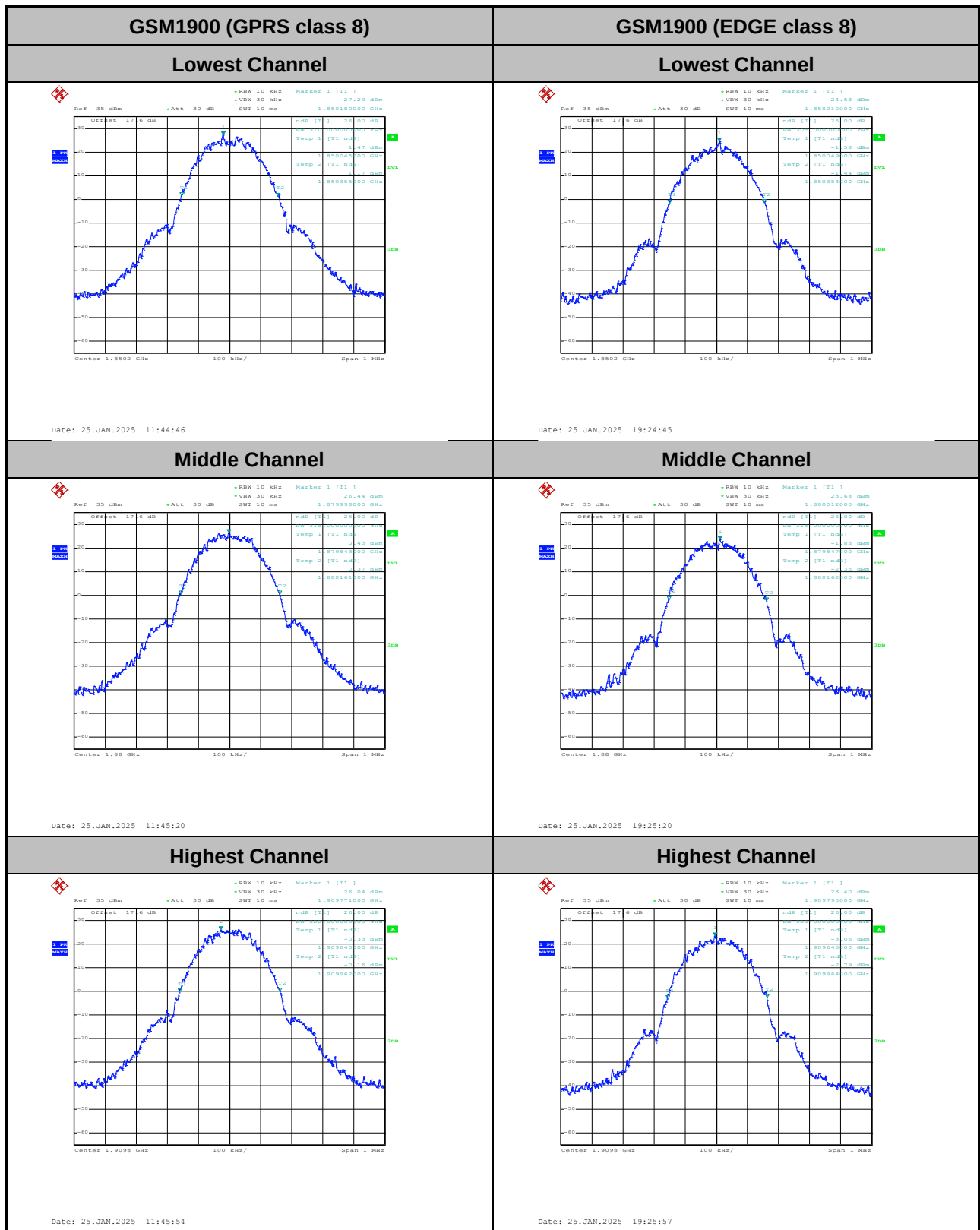
GSM1900 (GPRS class 8)		GSM1900 (EDGE class 8)	
Lowest Channel		Lowest Channel	
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.18 dBm Peak 29.75 dBm Crest 0.56 dB 10 % 0.28 dB 1 % 0.44 dB .1 % 0.52 dB .01 % 0.56 dB Date: 25.JAN.2025 11:54:55		 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.39 dBm Peak 28.76 dBm Crest 3.37 dB 10 % 2.56 dB 1 % 3.12 dB .1 % 3.28 dB .01 % 3.36 dB Date: 25.JAN.2025 19:36:15	
Middle Channel		Middle Channel	
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.14 dBm Peak 29.75 dBm Crest 0.60 dB 10 % 0.28 dB 1 % 0.44 dB .1 % 0.52 dB .01 % 0.56 dB Date: 25.JAN.2025 11:55:12		 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.56 dBm Peak 28.97 dBm Crest 3.41 dB 10 % 2.56 dB 1 % 3.12 dB .1 % 3.28 dB .01 % 3.40 dB Date: 25.JAN.2025 19:36:32	
Highest Channel		Highest Channel	
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.31 dBm Peak 29.82 dBm Crest 0.50 dB 10 % 0.28 dB 1 % 0.44 dB .1 % 0.48 dB .01 % 0.52 dB Date: 25.JAN.2025 11:55:31		 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.52 dBm Peak 28.83 dBm Crest 3.31 dB 10 % 2.52 dB 1 % 3.08 dB .1 % 3.20 dB .01 % 3.28 dB Date: 25.JAN.2025 19:36:50	

**26dB Bandwidth**

Mode	GSM850 : 26dB BW(MHz)	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.319	0.318
Middle CH	0.314	0.307
Highest CH	0.313	0.309

Mode	GSM1900 : 26dB BW(MHz)	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.310	0.305
Middle CH	0.318	0.315
Highest CH	0.322	0.321





Occupied Bandwidth

Mode	GSM850 : 99%OBW(MHz)	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.249	0.245
Middle CH	0.248	0.253
Highest CH	0.246	0.244

Mode	GSM1900 : 99%OBW(MHz)	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.247	0.247
Middle CH	0.245	0.244
Highest CH	0.248	0.251



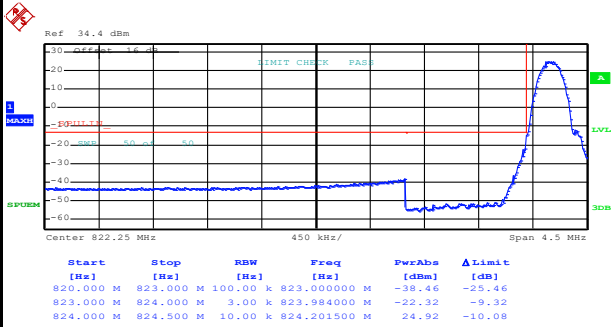
GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)
Lowest Channel	Lowest Channel
Date: 25.JAN.2025 11:46:37	Date: 25.JAN.2025 19:26:47
Middle Channel	Middle Channel
Date: 25.JAN.2025 11:47:11	Date: 25.JAN.2025 19:27:22
Highest Channel	Highest Channel
Date: 25.JAN.2025 11:47:47	Date: 25.JAN.2025 19:27:58



Conducted Band Edge

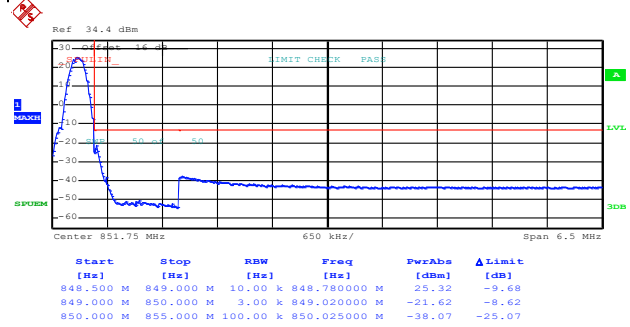
GSM850 (GPRS class 8)

Lowest Band Edge



Date: 25.JAN.2025 12:04:07

Highest Band Edge



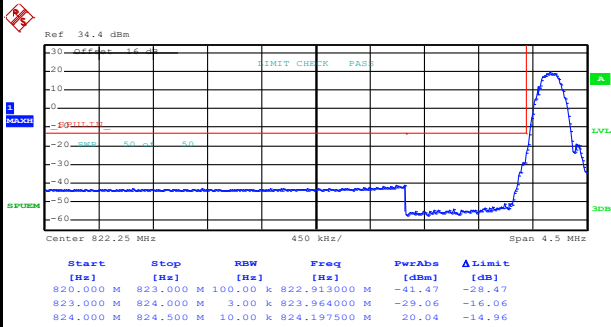
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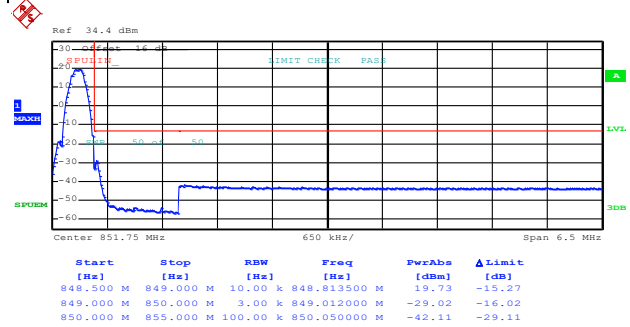
GSM850 (EDGE class 8)

Lowest Band Edge

Highest Band Edge



Date: 25.JAN.2025 19:16:07



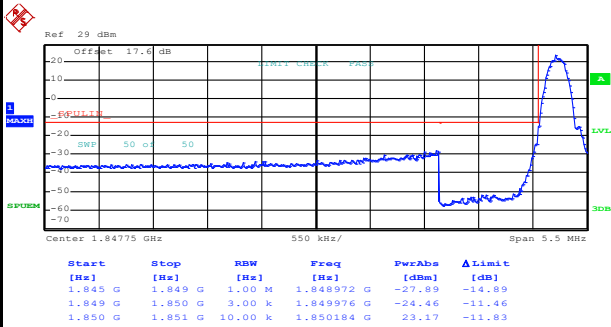
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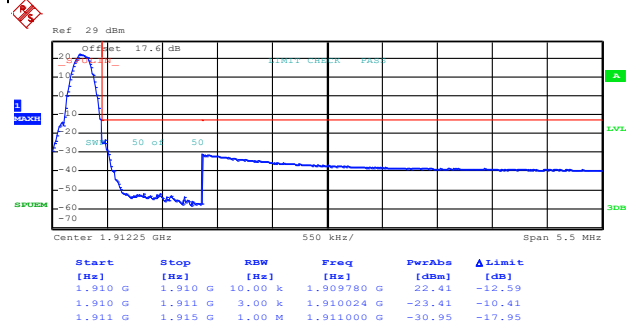
GSM1900 (GPRS class 8)

Lowest Band Edge

Highest Band Edge



Date: 25.JAN.2025 11:49:27



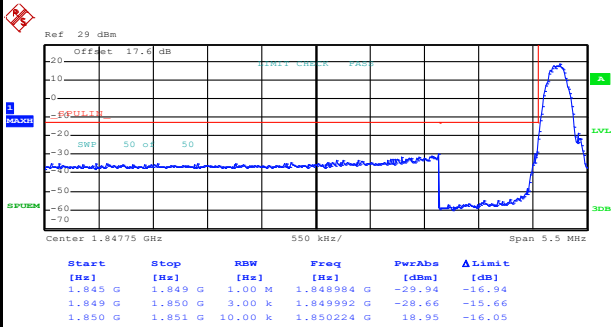
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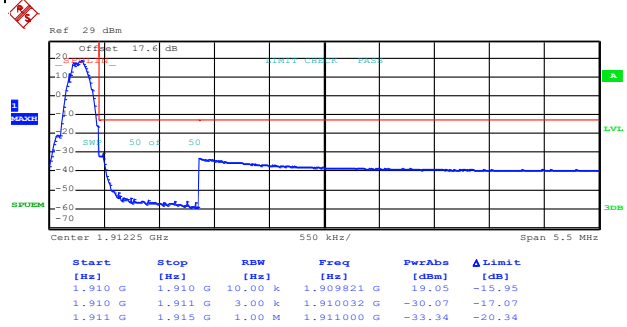
GSM1900 (EDGE class 8)

Lowest Band Edge

Highest Band Edge



Date: 25.JAN.2025 19:30:01



Date: 25.JAN.2025 19:31:35



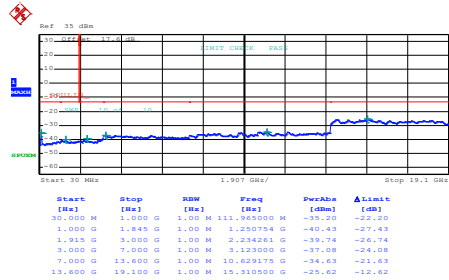
Conducted Spurious Emission

GSM850 (GPRS class 8)		GSM850 (EDGE class 8)	
Lowest Channel		Lowest Channel	
</			



GSM1900 (GPRS class 8)

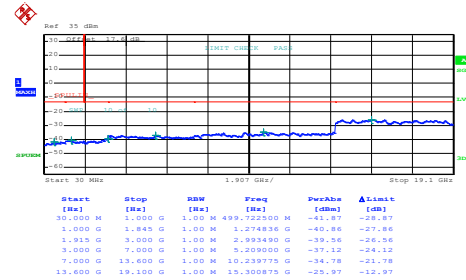
Lowest Channel



Date: 25.JAN.2025 11:52:32

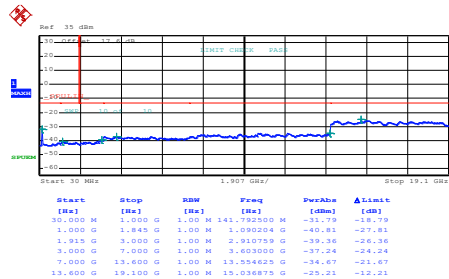
GSM1900 (EDGE class 8)

Lowest Channel



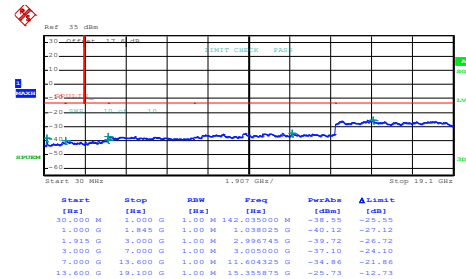
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Middle Channel



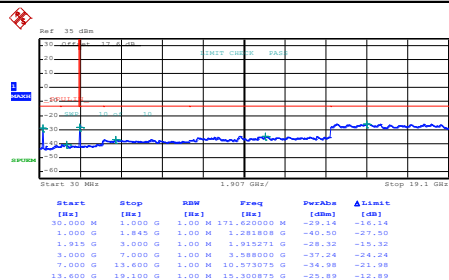
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Middle Channel



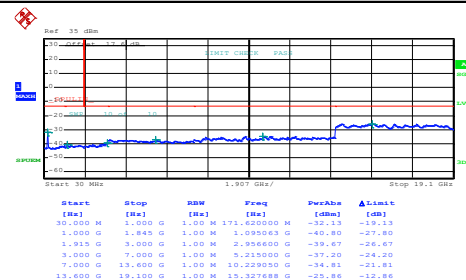
Date: 25.JAN.2025 19:33:37

Highest Channel



Date: 25.JAN.2025 11:54:15

Highest Channel



Date: 25.JAN.2025 19:34:30

**Frequency Stability**

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0155	0.0287	PASS
40	Normal Voltage	0.0108	0.0072	
30	Normal Voltage	0.0084	0.0227	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0024	0.0084	
0	Normal Voltage	0.0108	0.0096	
-10	Normal Voltage	0.0155	0.0132	
-20	Normal Voltage	0.0096	0.0179	
-30	Normal Voltage	0.0120	0.0251	
20	Maximum Voltage	0.0036	0.0012	
20	Normal Voltage	0.0048	0.0012	
20	Minimum Voltage	0.0012	0.0024	

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (Hz)		Result
50	Normal Voltage	-13	-24	PASS
40	Normal Voltage	-9	6	
30	Normal Voltage	-7	-19	
20(Ref.)	Normal Voltage	0	0	
10	Normal Voltage	2	-7	
0	Normal Voltage	9	8	
-10	Normal Voltage	13	11	
-20	Normal Voltage	8	15	
-30	Normal Voltage	10	21	
20	Maximum Voltage	3	-1	
20	Normal Voltage	4	1	
20	Minimum Voltage	-1	-2	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0170	0.0128	PASS
40	Normal Voltage	0.0181	0.0138	
30	Normal Voltage	0.0149	0.0133	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0005	0.0037	
0	Normal Voltage	0.0016	0.0005	
-10	Normal Voltage	0.0027	0.0027	
-20	Normal Voltage	0.0021	0.0053	
-30	Normal Voltage	0.0069	0.0043	
20	Maximum Voltage	0.0011	0.0016	
20	Normal Voltage	0.0005	0.0032	
20	Minimum Voltage	0.0021	0.0021	

Note:

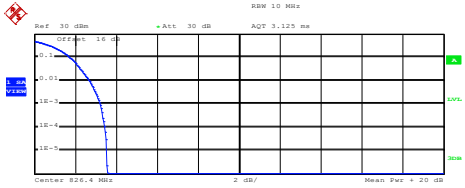
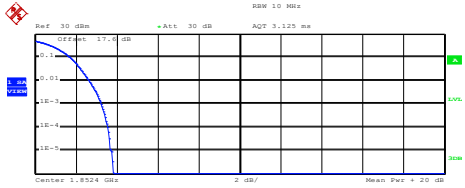
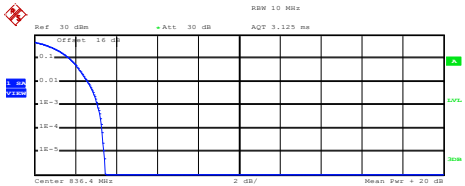
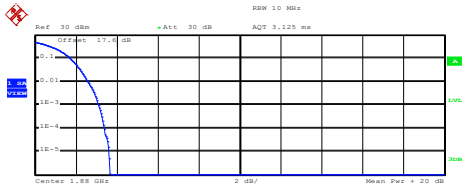
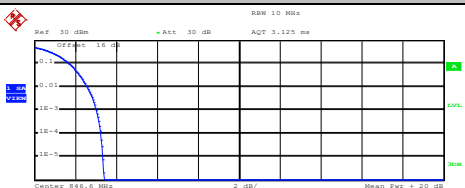
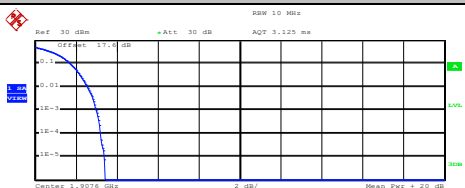
1. Normal Voltage = 3.9V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage =4.5 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

A3. WCDMA

Peak-to-Average Ratio

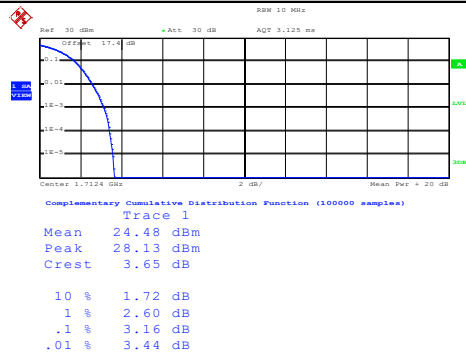
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.24	3.24	3.16	PASS
Middle CH	3.08	3.12	3.12	
Highest CH	3.04	3.00	3.12	



WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	Lowest Channel
 Center 826.4 MHz Trace 1 Mean 23.66 dBm Peak 27.21 dBm Crest 3.56 dB 10 % 1.76 dB 1 % 2.68 dB .1 % 3.24 dB .01 % 3.44 dB Date: 25.JAN.2025 12:31:59	 Center 1.8524 GHz Trace 1 Mean 24.24 dBm Peak 28.06 dBm Crest 3.82 dB 10 % 1.72 dB 1 % 2.64 dB .1 % 3.24 dB .01 % 3.56 dB Date: 25.JAN.2025 13:46:12
Middle Channel	Middle Channel
 Center 836.4 MHz Trace 1 Mean 23.60 dBm Peak 27.07 dBm Crest 3.47 dB 10 % 1.72 dB 1 % 2.60 dB .1 % 3.08 dB .01 % 3.32 dB Date: 25.JAN.2025 12:32:15	 Center 1.88 GHz Trace 1 Mean 24.06 dBm Peak 27.71 dBm Crest 3.65 dB 10 % 1.72 dB 1 % 2.60 dB .1 % 3.12 dB .01 % 3.40 dB Date: 25.JAN.2025 13:49:30
Highest Channel	Highest Channel
 Center 846.6 MHz Trace 1 Mean 23.45 dBm Peak 26.86 dBm Crest 3.41 dB 10 % 1.72 dB 1 % 2.60 dB .1 % 3.04 dB .01 % 3.24 dB Date: 25.JAN.2025 12:32:31	 Center 1.9076 GHz Trace 1 Mean 23.87 dBm Peak 27.28 dBm Crest 3.42 dB 10 % 1.72 dB 1 % 2.56 dB .1 % 3.00 dB .01 % 3.20 dB Date: 25.JAN.2025 13:49:51

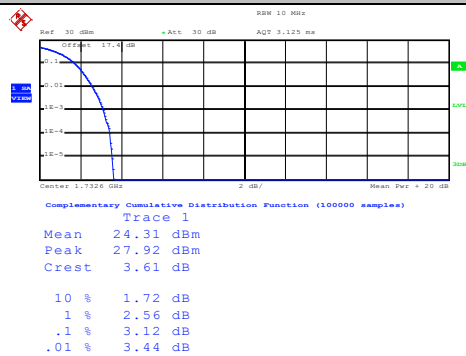
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



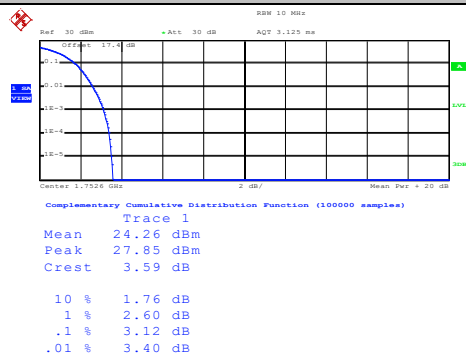
Date: 25.JAN.2025 13:53:38

Middle Channel



Date: 25.JAN.2025 13:54:06

Highest Channel



Date: 25.JAN.2025 13:28:09

26dB Bandwidth

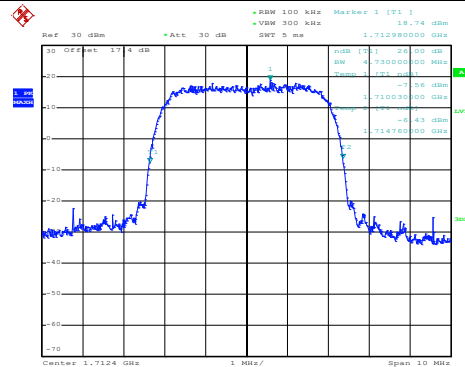
Mode	WCDMA Band V 26dB BW(MHz)	WCDMA Band II 26dB BW(MHz)	WCDMA Band IV 26dB BW(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.72	4.75	4.73
Middle CH	4.73	4.75	4.75
Highest CH	4.74	4.75	4.75



WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	Lowest Channel
Date: 25.JAN.2025 12:13:04	Date: 25.JAN.2025 13:30:25
Middle Channel	Middle Channel
Date: 25.JAN.2025 12:13:43	Date: 25.JAN.2025 13:31:20
Highest Channel	Highest Channel
Date: 25.JAN.2025 12:14:22	Date: 25.JAN.2025 13:32:12

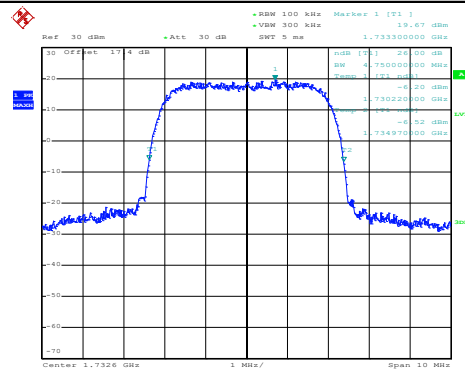
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



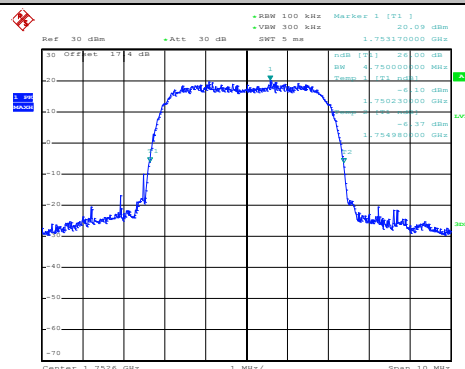
Date: 25.JAN.2025 13:07:59

Middle Channel



Date: 25.JAN.2025 13:09:01

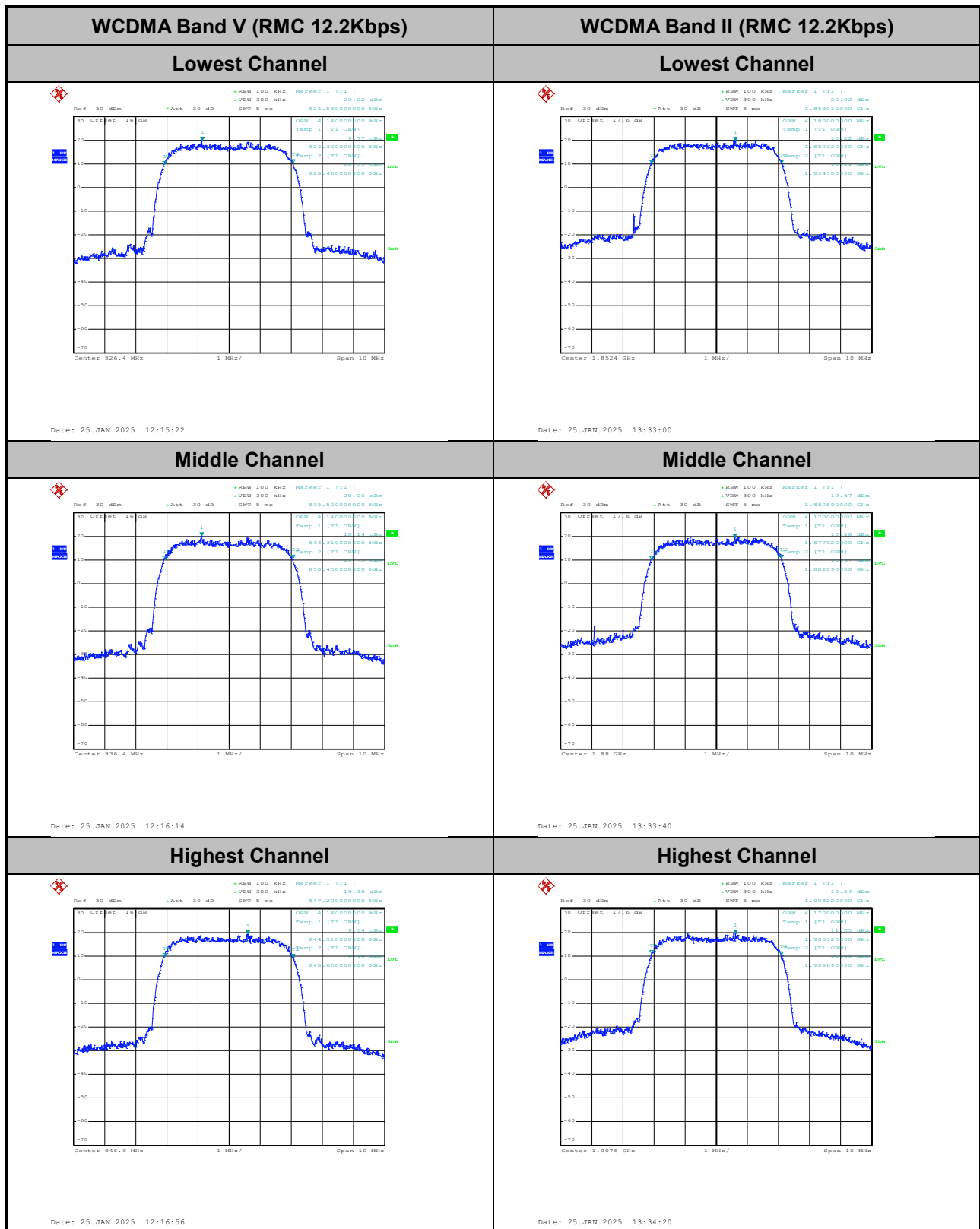
Highest Channel



Date: 25.JAN.2025 13:09:51

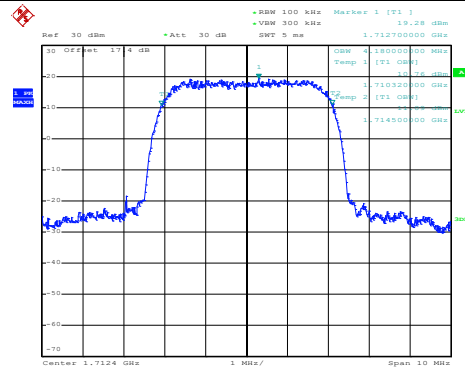
**Occupied Bandwidth**

Mode	WCDMA Band V 99%OBW(MHz)	WCDMA Band II 99%OBW(MHz)	WCDMA Band IV 99%OBW(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.14	4.18	4.18
Middle CH	4.14	4.17	4.17
Highest CH	4.14	4.17	4.17



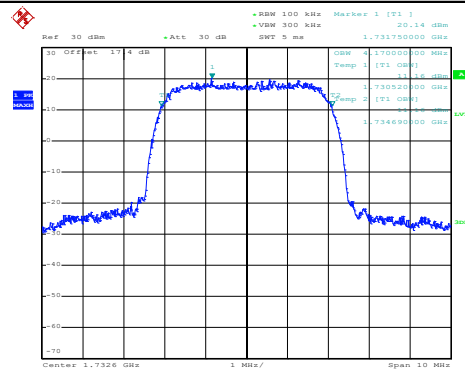
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



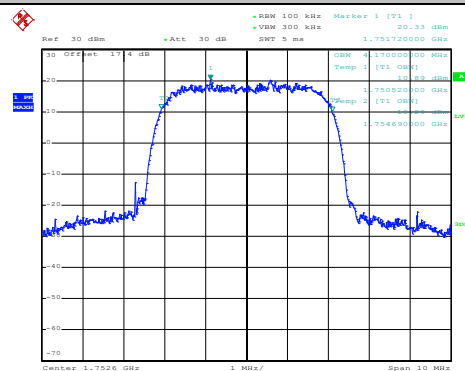
Date: 25.JAN.2025 13:11:06

Middle Channel



Date: 25.JAN.2025 13:11:46

Highest Channel



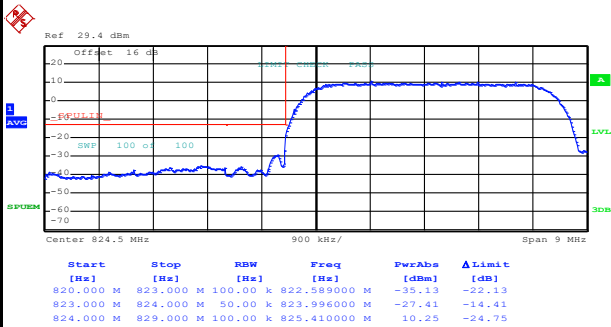
Date: 25.JAN.2025 13:12:26



Conducted Band Edge

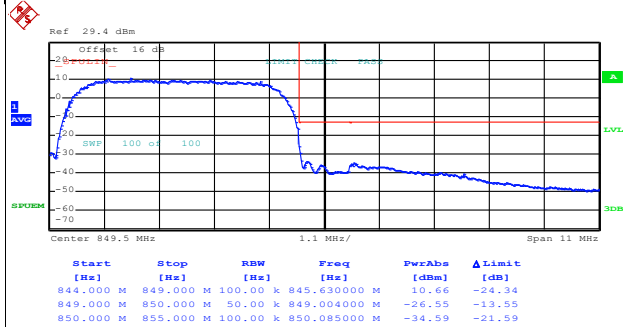
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 25.JAN.2025 12:19:56

Highest Band Edge



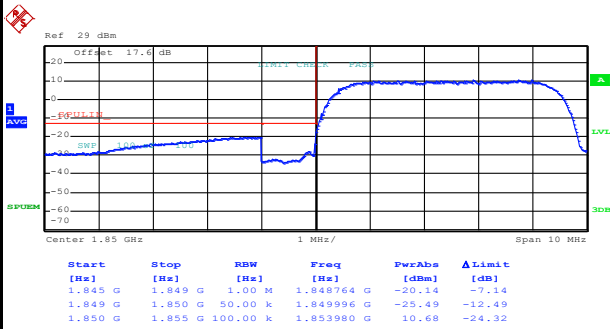
Date: 25.JAN.2025 12:28:30



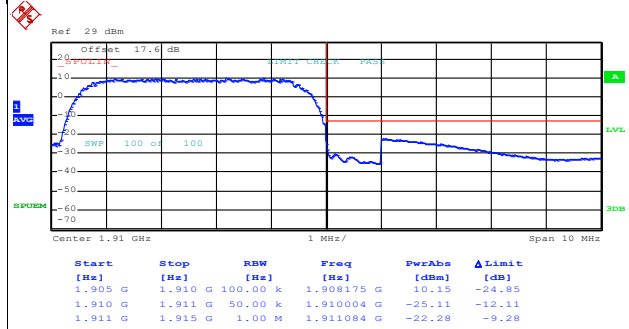
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 25.JAN.2025 13:37:51



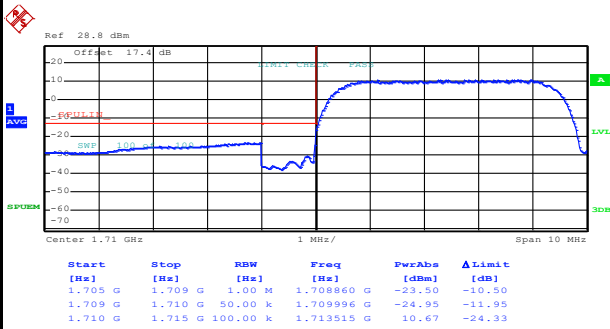
Date: 25.JAN.2025 13:40:48



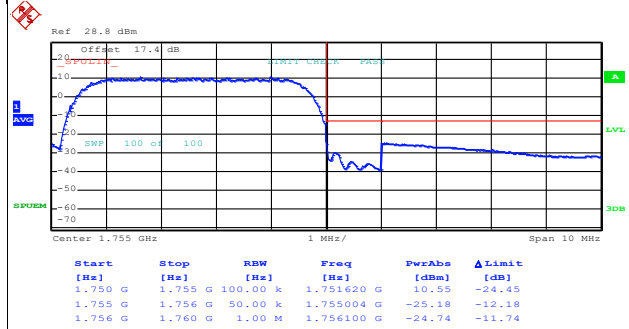
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 25.JAN.2025 13:15:36



Date: 25.JAN.2025 13:18:34

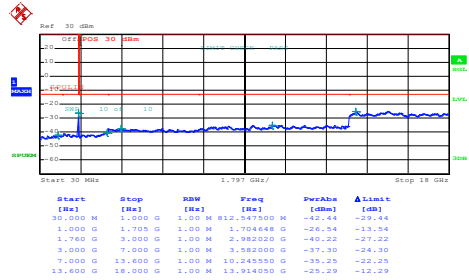


Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)																																																																														
Lowest Channel	Lowest Channel																																																																														
Start 30 MHz Stop 9 GHz <table><tr><th>Start [Hz]</th><th>Stop [Hz]</th><th>RBW [Hz]</th><th>Freq [Hz]</th><th>PwrAve [dBm]</th><th>ΔLimit [dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1.00 M</td><td>819,825000 M</td><td>-28.47</td><td>-19.47</td></tr><tr><td>855,000 M</td><td>1,000 G</td><td>1.00 M</td><td>863,700000 M</td><td>-42.97</td><td>-29.97</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1.00 M</td><td>2,8233000 G</td><td>-61.25</td><td>-28.25</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1.00 M</td><td>3,0202000 G</td><td>-39.06</td><td>-26.06</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1.00 M</td><td>8,3595000 G</td><td>-36.12</td><td>-23.12</td></tr></table> Date: 25.JAN.2025 12:29:35	Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAve [dBm]	ΔLimit [dB]	30,000 M	820,000 M	1.00 M	819,825000 M	-28.47	-19.47	855,000 M	1,000 G	1.00 M	863,700000 M	-42.97	-29.97	1,000 G	3,000 G	1.00 M	2,8233000 G	-61.25	-28.25	3,000 G	7,000 G	1.00 M	3,0202000 G	-39.06	-26.06	7,000 G	9,000 G	1.00 M	8,3595000 G	-36.12	-23.12	Start 30 MHz Stop 19.1 GHz <table><tr><th>Start [Hz]</th><th>Stop [Hz]</th><th>RBW [Hz]</th><th>Freq [Hz]</th><th>PwrAve [dBm]</th><th>ΔLimit [dB]</th></tr><tr><td>30,000 M</td><td>1,000 G</td><td>1.00 M</td><td>882,145000 M</td><td>-41.45</td><td>-28.45</td></tr><tr><td>1,000 G</td><td>1,845 G</td><td>1.00 M</td><td>1,842888 G</td><td>-28.25</td><td>-15.25</td></tr><tr><td>1,915 G</td><td>3,000 G</td><td>1.00 M</td><td>2,993219 G</td><td>-39.39</td><td>-26.39</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1.00 M</td><td>3,065000 G</td><td>-37.10</td><td>-24.10</td></tr><tr><td>7,000 G</td><td>13,600 G</td><td>1.00 M</td><td>10,230700 G</td><td>-34.84</td><td>-21.84</td></tr><tr><td>13,600 G</td><td>19,100 G</td><td>1.00 M</td><td>15,038937 G</td><td>-25.39</td><td>-12.39</td></tr></table> Date: 25.JAN.2025 13:41:55	Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAve [dBm]	ΔLimit [dB]	30,000 M	1,000 G	1.00 M	882,145000 M	-41.45	-28.45	1,000 G	1,845 G	1.00 M	1,842888 G	-28.25	-15.25	1,915 G	3,000 G	1.00 M	2,993219 G	-39.39	-26.39	3,000 G	7,000 G	1.00 M	3,065000 G	-37.10	-24.10	7,000 G	13,600 G	1.00 M	10,230700 G	-34.84	-21.84	13,600 G	19,100 G	1.00 M	15,038937 G	-25.39	-12.39
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAve [dBm]	ΔLimit [dB]																																																																										
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Start 30 MHz Stop 9 GHz <table><tr><th>Start [Hz]</th><th>Stop [Hz]</th><th>RBW [Hz]</th><th>Freq [Hz]</th><th>PwrAve [dBm]</th><th>ΔLimit [dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1.00 M</td><td>819,825000 M</td><td>-40.95</td><td>-27.95</td></tr><tr><td>855,000 M</td><td>1,000 G</td><td>1.00 M</td><td>955,68760 M</td><td>-43.60</td><td>-30.60</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1.00 M</td><td>2,890500 G</td><td>-41.17</td><td>-28.17</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1.00 M</td><td>3,0205000 G</td><td>-38.40</td><td>-25.40</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1.00 M</td><td>7,6705000 G</td><td>-36.72</td><td>-23.72</td></tr></table> Date: 25.JAN.2025 12:30:31	Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAve [dBm]	ΔLimit [dB]	30,000 M	820,000 M	1.00 M	819,825000 M	-40.95	-27.95	855,000 M	1,000 G	1.00 M	955,68760 M	-43.60	-30.60	1,000 G	3,000 G	1.00 M	2,890500 G	-41.17	-28.17	3,000 G	7,000 G	1.00 M	3,0205000 G	-38.40	-25.40	7,000 G	9,000 G	1.00 M	7,6705000 G	-36.72	-23.72	Start 30 MHz Stop 19.1 GHz <table><tr><th>Start [Hz]</th><th>Stop [Hz]</th><th>RBW [Hz]</th><th>Freq [Hz]</th><th>PwrAve [dBm]</th><th>ΔLimit [dB]</th></tr><tr><td>30,000 M</td><td>1,000 G</td><td>1.00 M</td><td>143,055000 M</td><td>-41.26</td><td>-28.26</td></tr><tr><td>1,000 G</td><td>1,845 G</td><td>1.00 M</td><td>1,233854 G</td><td>-40.94</td><td>-27.94</td></tr><tr><td>1,915 G</td><td>3,000 G</td><td>1.00 M</td><td>2,904249 G</td><td>-39.53</td><td>-26.53</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1.00 M</td><td>3,605000 G</td><td>-37.47</td><td>-24.47</td></tr><tr><td>7,000 G</td><td>13,600 G</td><td>1.00 M</td><td>10,227400 G</td><td>-34.68</td><td>-21.68</td></tr><tr><td>13,600 G</td><td>19,100 G</td><td>1.00 M</td><td>15,288500 G</td><td>-25.52</td><td>-12.52</td></tr></table> Date: 25.JAN.2025 13:42:51	Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAve [dBm]	ΔLimit [dB]	30,000 M	1,000 G	1.00 M	143,055000 M	-41.26	-28.26	1,000 G	1,845 G	1.00 M	1,233854 G	-40.94	-27.94	1,915 G	3,000 G	1.00 M	2,904249 G	-39.53	-26.53	3,000 G	7,000 G	1.00 M	3,605000 G	-37.47	-24.47	7,000 G	13,600 G	1.00 M	10,227400 G	-34.68	-21.68	13,600 G	19,100 G	1.00 M	15,288500 G	-25.52	-12.52
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAve [dBm]	ΔLimit [dB]																																																																										
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13,600 G	19,100 G	1.00 M	15,288500 G	-25.52	-12.52																																																																										
Highest Channel	Highest Channel																																																																														
Start 30 MHz Stop 9 GHz <table><tr><th>Start [Hz]</th><th>Stop [Hz]</th><th>RBW [Hz]</th><th>Freq [Hz]</th><th>PwrAve [dBm]</th><th>ΔLimit [dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1.00 M</td><td>816,642500 M</td><td>-43.61</td><td>-30.61</td></tr><tr><td>855,000 M</td><td>1,000 G</td><td>1.00 M</td><td>895,853753 M</td><td>-43.16</td><td>-30.16</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1.00 M</td><td>2,8785000 G</td><td>-61.25</td><td>-28.25</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1.00 M</td><td>3,566000 G</td><td>-38.73</td><td>-25.73</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1.00 M</td><td>7,5925000 G</td><td>-36.79</td><td>-23.79</td></tr></table> Date: 25.JAN.2025 12:31:32	Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAve [dBm]	ΔLimit [dB]	30,000 M	820,000 M	1.00 M	816,642500 M	-43.61	-30.61	855,000 M	1,000 G	1.00 M	895,853753 M	-43.16	-30.16	1,000 G	3,000 G	1.00 M	2,8785000 G	-61.25	-28.25	3,000 G	7,000 G	1.00 M	3,566000 G	-38.73	-25.73	7,000 G	9,000 G	1.00 M	7,5925000 G	-36.79	-23.79	Start 30 MHz Stop 19.1 GHz <table><tr><th>Start [Hz]</th><th>Stop [Hz]</th><th>RBW [Hz]</th><th>Freq [Hz]</th><th>PwrAve [dBm]</th><th>ΔLimit [dB]</th></tr><tr><td>30,000 M</td><td>1,000 G</td><td>1.00 M</td><td>169,922500 M</td><td>-40.78</td><td>-27.78</td></tr><tr><td>1,000 G</td><td>1,845 G</td><td>1.00 M</td><td>1,106048 G</td><td>-40.95</td><td>-27.95</td></tr><tr><td>1,915 G</td><td>3,000 G</td><td>1.00 M</td><td>1,913271 G</td><td>-39.05</td><td>-26.05</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1.00 M</td><td>3,027000 G</td><td>-36.76</td><td>-23.76</td></tr><tr><td>7,000 G</td><td>13,600 G</td><td>1.00 M</td><td>13,541425 G</td><td>-34.99</td><td>-21.99</td></tr><tr><td>13,600 G</td><td>19,100 G</td><td>1.00 M</td><td>15,350063 G</td><td>-25.61</td><td>-12.61</td></tr></table> Date: 25.JAN.2025 13:43:49	Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAve [dBm]	ΔLimit [dB]	30,000 M	1,000 G	1.00 M	169,922500 M	-40.78	-27.78	1,000 G	1,845 G	1.00 M	1,106048 G	-40.95	-27.95	1,915 G	3,000 G	1.00 M	1,913271 G	-39.05	-26.05	3,000 G	7,000 G	1.00 M	3,027000 G	-36.76	-23.76	7,000 G	13,600 G	1.00 M	13,541425 G	-34.99	-21.99	13,600 G	19,100 G	1.00 M	15,350063 G	-25.61	-12.61
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAve [dBm]	ΔLimit [dB]																																																																										
30,000 M	820,000 M	1.00 M	816,642500 M	-43.61	-30.61																																																																										
855,000 M	1,000 G	1.00 M	895,853753 M	-43.16	-30.16																																																																										
1,000 G	3,000 G	1.00 M	2,8785000 G	-61.25	-28.25																																																																										
3,000 G	7,000 G	1.00 M	3,566000 G	-38.73	-25.73																																																																										
7,000 G	9,000 G	1.00 M	7,5925000 G	-36.79	-23.79																																																																										
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAve [dBm]	ΔLimit [dB]																																																																										
30,000 M	1,000 G	1.00 M	169,922500 M	-40.78	-27.78																																																																										
1,000 G	1,845 G	1.00 M	1,106048 G	-40.95	-27.95																																																																										
1,915 G	3,000 G	1.00 M	1,913271 G	-39.05	-26.05																																																																										
3,000 G	7,000 G	1.00 M	3,027000 G	-36.76	-23.76																																																																										
7,000 G	13,600 G	1.00 M	13,541425 G	-34.99	-21.99																																																																										
13,600 G	19,100 G	1.00 M	15,350063 G	-25.61	-12.61																																																																										

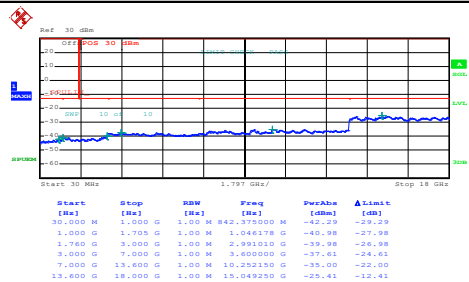
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



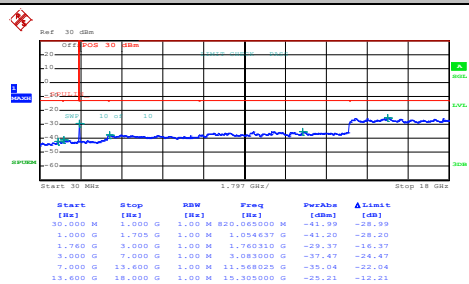
Date: 25.JAN.2025 13:20:28

Middle Channel



Date: 25.JAN.2025 13:22:00

Highest Channel



Date: 25.JAN.2025 13:24:09

Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	2.5ppm
50	Normal Voltage	0.0072	PASS
40	Normal Voltage	0.0060	
30	Normal Voltage	0.0108	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0072	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0120	
20	Normal Voltage	0.0084	
20	Minimum Voltage	0.0048	

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (Hz)	Note 2
50	Normal Voltage	-6	PASS
40	Normal Voltage	-5	
30	Normal Voltage	-9	
20(Ref.)	Normal Voltage	0	
10	Normal Voltage	4	
0	Normal Voltage	1	
-10	Normal Voltage	6	
-20	Normal Voltage	2	
-30	Normal Voltage	3	
20	Maximum Voltage	-10	
20	Normal Voltage	-7	
20	Minimum Voltage	-4	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Note 2.
50	Normal Voltage	0.0069	PASS
40	Normal Voltage	0.0074	
30	Normal Voltage	0.0064	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0064	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0005	
20	Minimum Voltage	0.0021	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (Hz)	Note 2
50	Normal Voltage	-13	PASS
40	Normal Voltage	-14	
30	Normal Voltage	-12	
20(Ref.)	Normal Voltage	0	
10	Normal Voltage	1	
0	Normal Voltage	3	
-10	Normal Voltage	5	
-20	Normal Voltage	4	
-30	Normal Voltage	12	
20	Maximum Voltage	2	
20	Normal Voltage	-1	
20	Minimum Voltage	-4	

Note:

1. Normal Voltage = 3.9V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage =4.5 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Note 2. Result
50	Normal Voltage	0.0127	PASS
40	Normal Voltage	0.0115	
30	Normal Voltage	0.0092	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0075	
-10	Normal Voltage	0.0081	
-20	Normal Voltage	0.0040	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0012	
20	Minimum Voltage	0.0029	

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (Hz)	Note 2. Result
50	Normal Voltage	-22	PASS
40	Normal Voltage	-20	
30	Normal Voltage	-16	
20(Ref.)	Normal Voltage	0	
10	Normal Voltage	5	
0	Normal Voltage	13	
-10	Normal Voltage	14	
-20	Normal Voltage	7	
-30	Normal Voltage	-1	
20	Maximum Voltage	-4	
20	Normal Voltage	-2	
20	Minimum Voltage	-5	

Note:

1. Normal Voltage = 3.9V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage =4.5 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

B1. Summary of each worse mode

Mode	Part	Band	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	Part 22H	GSM 850	M	2512	-29.43	RMS	27.95	-30.65	0.21	-95.23	68.29	-13.00	-16.43	V	0
2	Part 22H	GSM 850	L	4128	-34.00	RMS	31.06	-29.16	0.28	-95.23	59.05	-13.00	-21.00	V	1
3	Part 22H	WCDMA B5	H	3384	-60.83	RMS	29.67	-29.66	0.23	-95.23	34.16	-13.00	-47.83	V	0
4	Part 22H	WCDMA B5	H	3384	-60.82	RMS	29.67	-29.66	0.23	-95.23	34.17	-13.00	-47.82	V	1
1	Part 24E	GSM 1900	L	7400	-51.20	RMS	36.40	-26.20	0.27	-95.23	33.56	-13.00	-38.20	V	2
2	Part 24E	GSM 1900	L	7400	-51.57	RMS	36.40	-26.20	0.27	-95.23	33.19	-13.00	-38.57	V	0
3	Part 24E	WCDMA B2	L	5565	-50.97	RMS	33.00	-27.67	0.35	-95.23	38.58	-13.00	-37.97	V	2
4	Part 24E	WCDMA B2	L	7410	-51.36	RMS	36.38	-26.20	0.26	-95.23	33.43	-13.00	-38.36	V	0
1	Part 27L	WCDMA B4	H	5257	-50.78	RMS	32.99	-27.83	0.47	-95.23	38.82	-13.00	-37.78	H	2
2	Part 27L	WCDMA B4	L	6849	-53.06	RMS	35.80	-26.56	0.31	-95.23	32.62	-13.00	-40.06	H	0

Note: The Part 22H reports mode 1, 3 / 2, 4 and Part 24E reports mode 1, 3 / 2, 4 and Part 27L reports mode 1 / 2 with respect to TX0 (Main) /TX1 (Sub) antenna respectively.

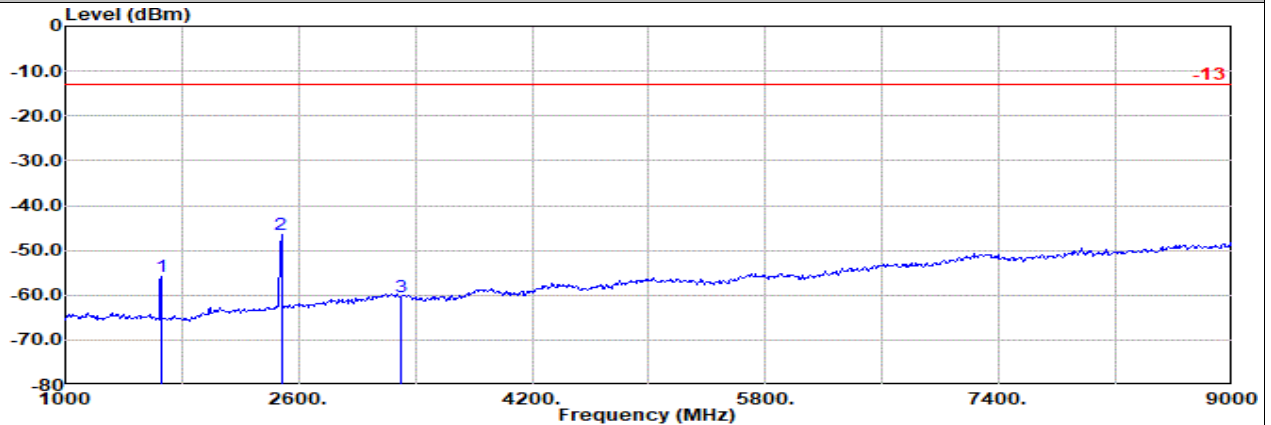


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Part 22H Mode 1

GSM 850 Ch128

L

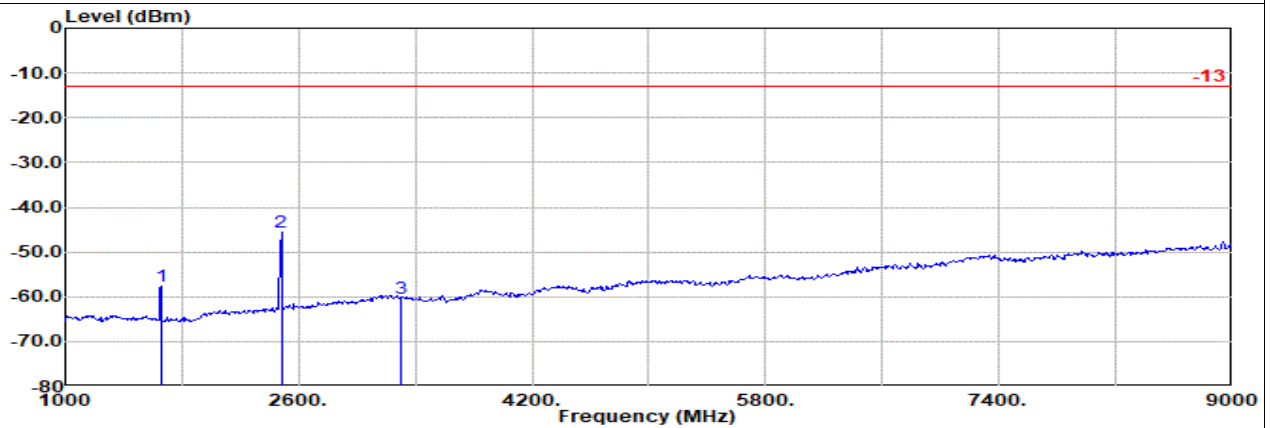


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

Mode : GSM 850 Ch128

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Reading	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	1656.00	-55.74	RMS	25.30	-32.00	0.35	-95.23	45.84	-13.00	-42.74	Horizontal	
2	2480.00	-46.43	RMS	27.78	-30.70	0.22	-95.23	51.50	-13.00	-33.43	Horizontal	
3	3296.00	-60.50	RMS	29.61	-29.74	0.26	-95.23	34.60	-13.00	-47.50	Horizontal	



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

Mode : GSM 850 Ch128

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Reading	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	1656.00	-57.69	RMS	25.30	-32.00	0.35	-95.23	43.89	-13.00	-44.69	Vertical	
2	2480.00	-45.64	RMS	27.78	-30.70	0.22	-95.23	52.29	-13.00	-32.64	Vertical	
3	3296.00	-60.46	RMS	29.61	-29.74	0.26	-95.23	34.64	-13.00	-47.46	Vertical	

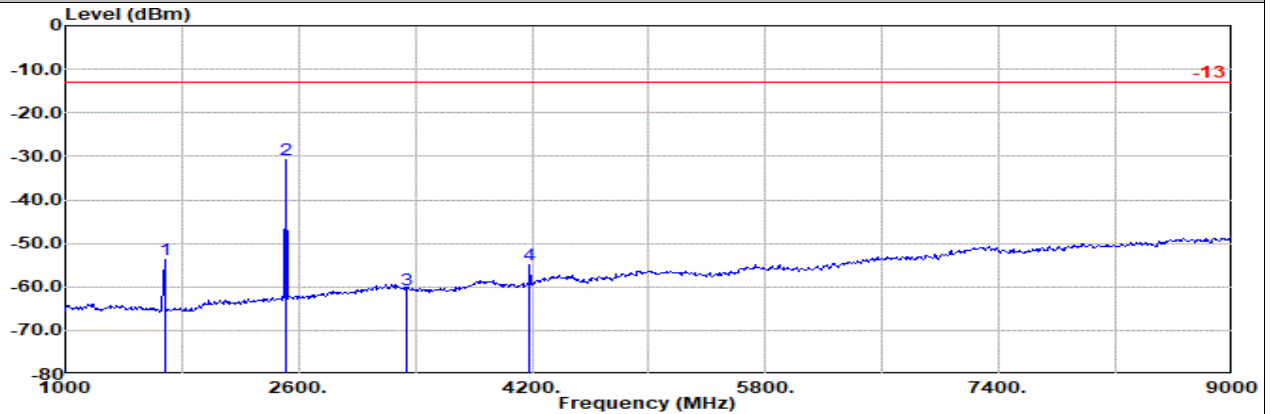


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Part 22H Mode 1

GSM 850 Ch189

M

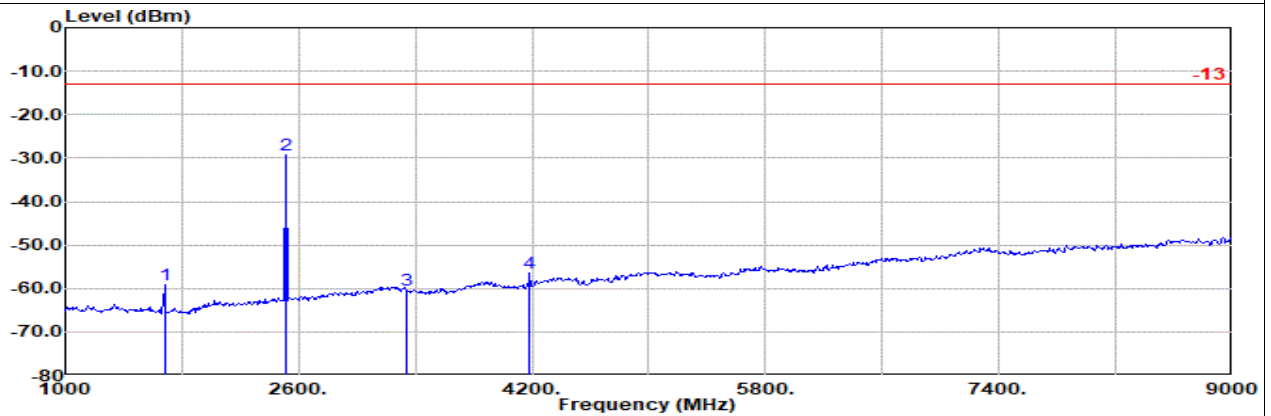


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

Mode : GSM 850 Ch189

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	1680.00	-53.60	RMS	25.30	-31.95	0.32	-95.23	47.96	-13.00	-40.60	Horizontal
2	2512.00	-30.66	RMS	27.95	-30.65	0.21	-95.23	67.06	-13.00	-17.66	Horizontal
3	3345.00	-60.67	RMS	29.60	-29.70	0.24	-95.23	34.42	-13.00	-47.67	Horizontal
4	4184.00	-54.95	RMS	31.10	-29.06	0.30	-95.23	37.94	-13.00	-41.95	Horizontal



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

Mode : GSM 850 Ch189

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	1680.00	-59.11	RMS	25.30	-31.95	0.32	-95.23	42.45	-13.00	-46.11	Vertical
2	2512.00	-29.43	RMS	27.95	-30.65	0.21	-95.23	68.29	-13.00	-16.43	Vertical
3	3345.00	-60.51	RMS	29.60	-29.70	0.24	-95.23	34.58	-13.00	-47.51	Vertical
4	4184.00	-56.41	RMS	31.10	-29.06	0.30	-95.23	36.48	-13.00	-43.41	Vertical

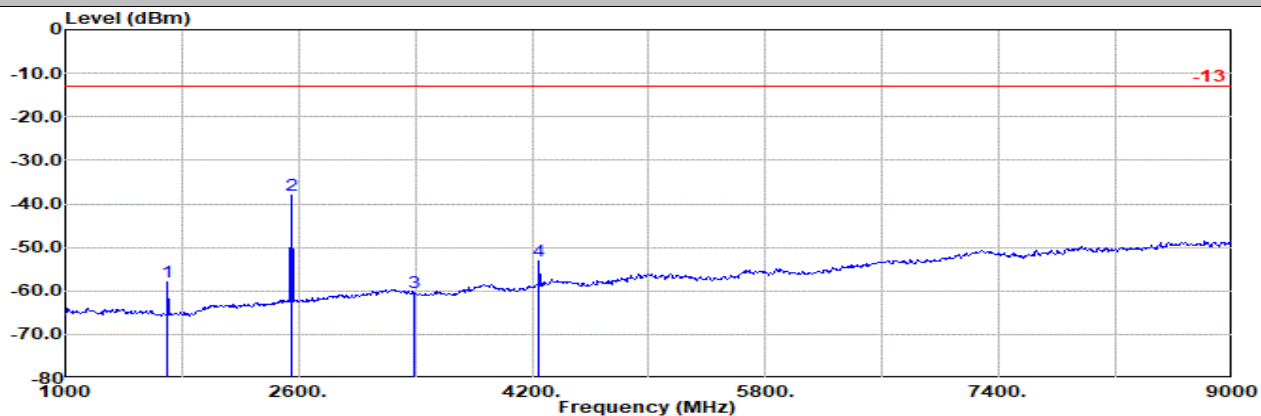


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Part 22H Mode 1

GSM 850 Ch251

H

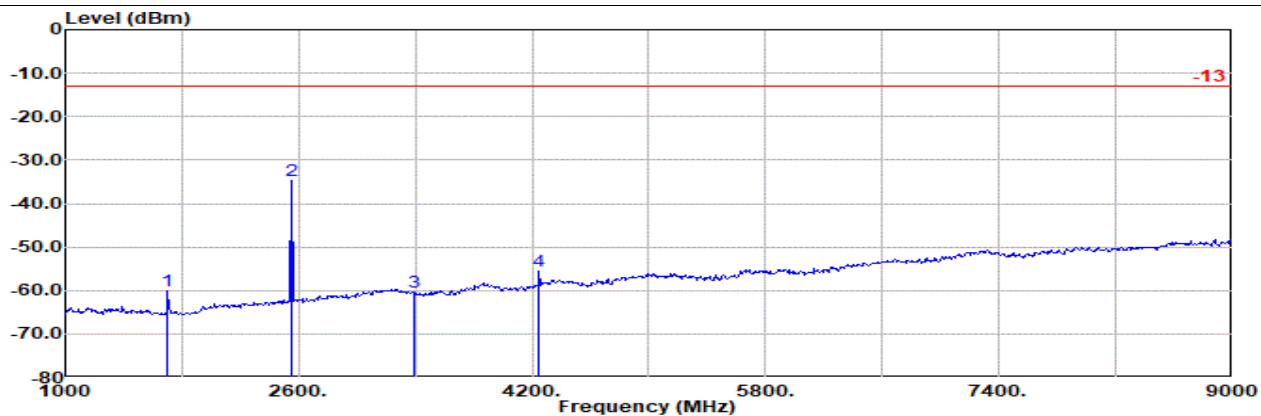


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

Mode : GSM 850 Ch251

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	1704.00	-58.04	RMS	25.31	-31.91	0.30	-95.23	43.49	-13.00	-45.04	Horizontal
2	2552.00	-37.93	RMS	28.10	-30.59	0.21	-95.23	59.58	-13.00	-24.93	Horizontal
3	3395.00	-60.49	RMS	29.69	-29.65	0.23	-95.23	34.47	-13.00	-47.49	Horizontal
4	4248.00	-53.27	RMS	31.20	-28.98	0.31	-95.23	39.43	-13.00	-40.27	Horizontal



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

Mode : GSM 850 Ch251

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	1704.00	-59.97	RMS	25.31	-31.91	0.30	-95.23	41.56	-13.00	-46.97	Vertical
2	2552.00	-34.75	RMS	28.10	-30.59	0.21	-95.23	62.76	-13.00	-21.75	Vertical
3	3392.00	-60.36	RMS	29.68	-29.66	0.23	-95.23	34.62	-13.00	-47.36	Vertical
4	4248.00	-55.56	RMS	31.20	-28.98	0.31	-95.23	37.14	-13.00	-42.56	Vertical

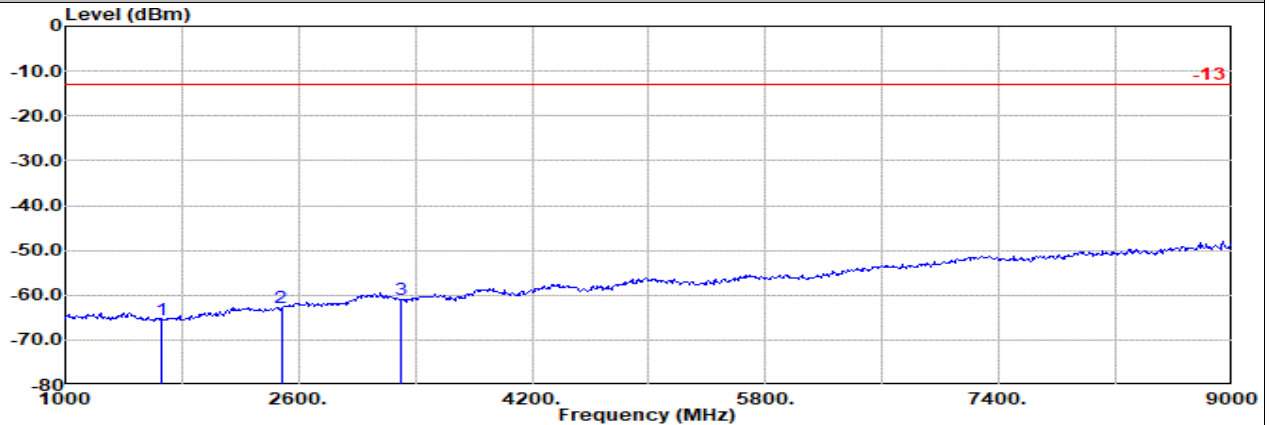


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Part 22H Mode 3

WCDMA B5 Ch4132

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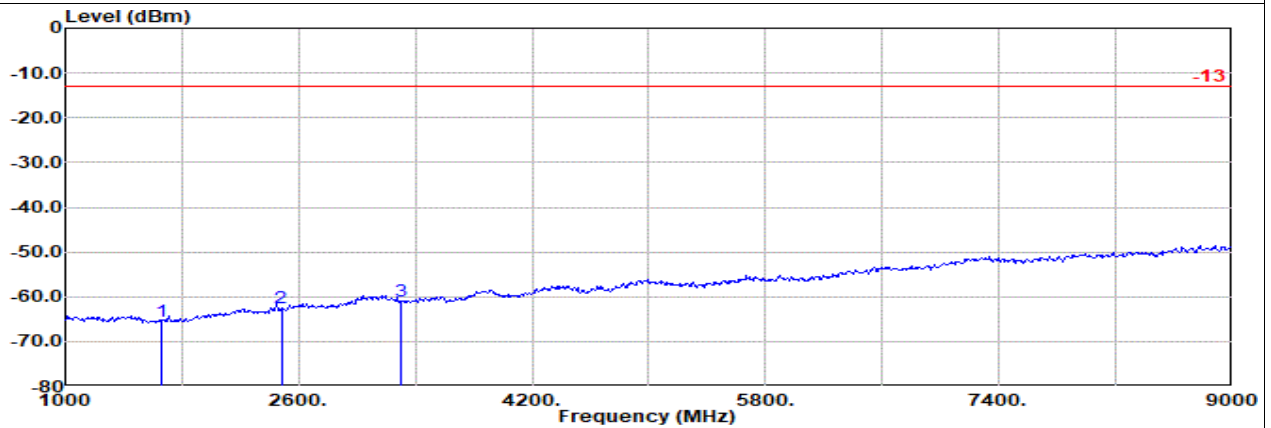


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

Mode : WCDMA Band V Ch4132

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Reading	Limit	Margin	Pol
					dB/m	dB			dBuV	dBm	dB	
1	1656.00	-65.53	RMS	25.30	-32.00	0.35	-95.23	36.05	-13.00	-52.53	Horizontal	
2	2480.00	-62.92	RMS	27.78	-30.70	0.22	-95.23	35.01	-13.00	-49.92	Horizontal	
3	3304.00	-61.03	RMS	29.60	-29.74	0.25	-95.23	34.09	-13.00	-48.03	Horizontal	



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

Mode : WCDMA Band V Ch4132

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Reading	Limit	Margin	Pol
					dB/m	dB			dBuV	dBm	dB	
1	1656.00	-65.64	RMS	25.30	-32.00	0.35	-95.23	35.94	-13.00	-52.64	Vertical	
2	2480.00	-62.56	RMS	27.78	-30.70	0.22	-95.23	35.37	-13.00	-49.56	Vertical	
3	3304.00	-60.95	RMS	29.60	-29.74	0.25	-95.23	34.17	-13.00	-47.95	Vertical	

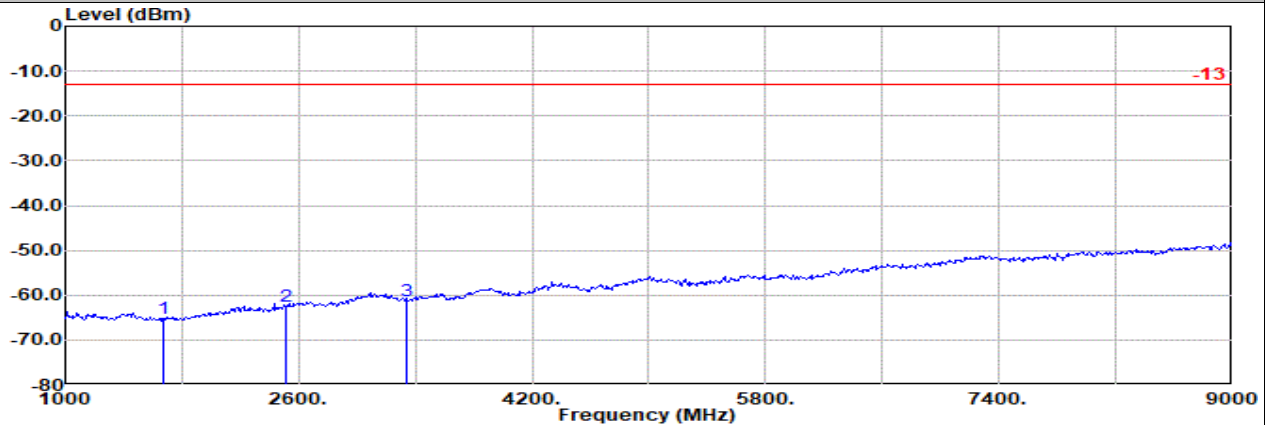


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Part 22H Mode 3

WCDMA B5 Ch4182

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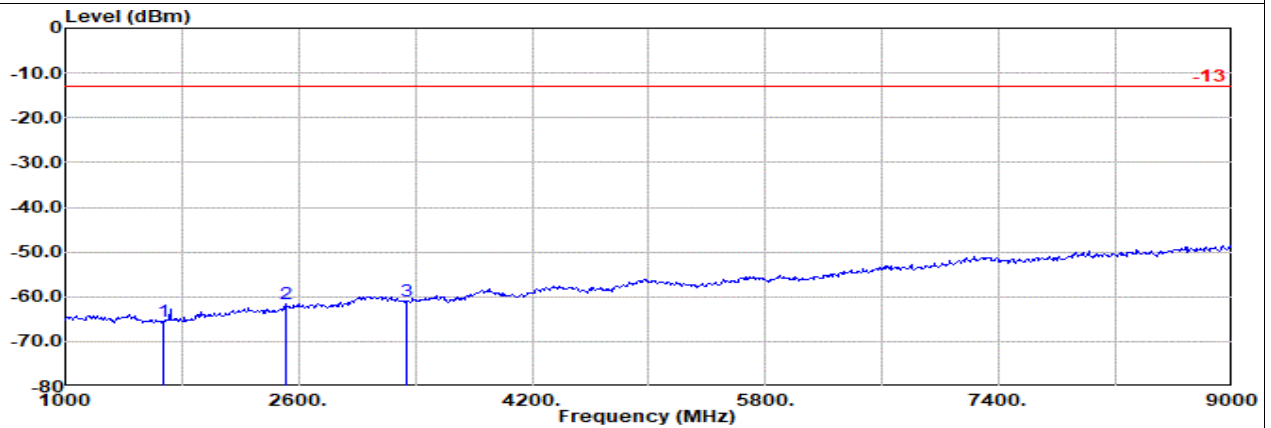


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

Mode : WCDMA Band V Ch4182

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Reading	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	1672.00	-65.15	RMS	25.30	-31.97	0.33	-95.23	36.42	-13.00	-52.15	Horizontal	
2	2512.00	-62.37	RMS	27.95	-30.65	0.21	-95.23	35.35	-13.00	-49.37	Horizontal	
3	3344.00	-61.22	RMS	29.60	-29.70	0.24	-95.23	33.87	-13.00	-48.22	Horizontal	



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

Mode : WCDMA Band V Ch4182

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Reading	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	1672.00	-65.41	RMS	25.30	-31.97	0.33	-95.23	36.16	-13.00	-52.41	Vertical	
2	2512.00	-61.71	RMS	27.95	-30.65	0.21	-95.23	36.01	-13.00	-48.71	Vertical	
3	3344.00	-61.06	RMS	29.60	-29.70	0.24	-95.23	34.03	-13.00	-48.06	Vertical	

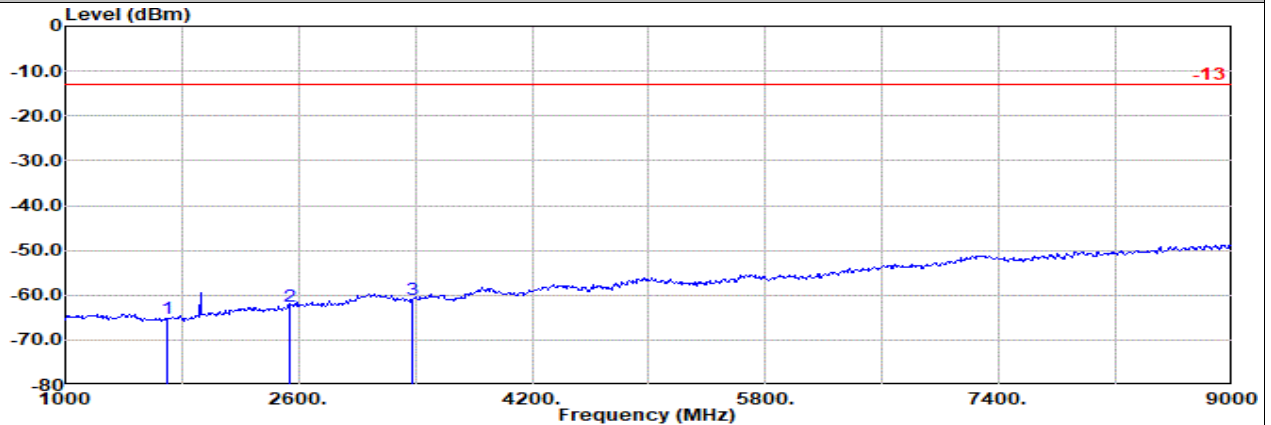


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Part 22H Mode 3

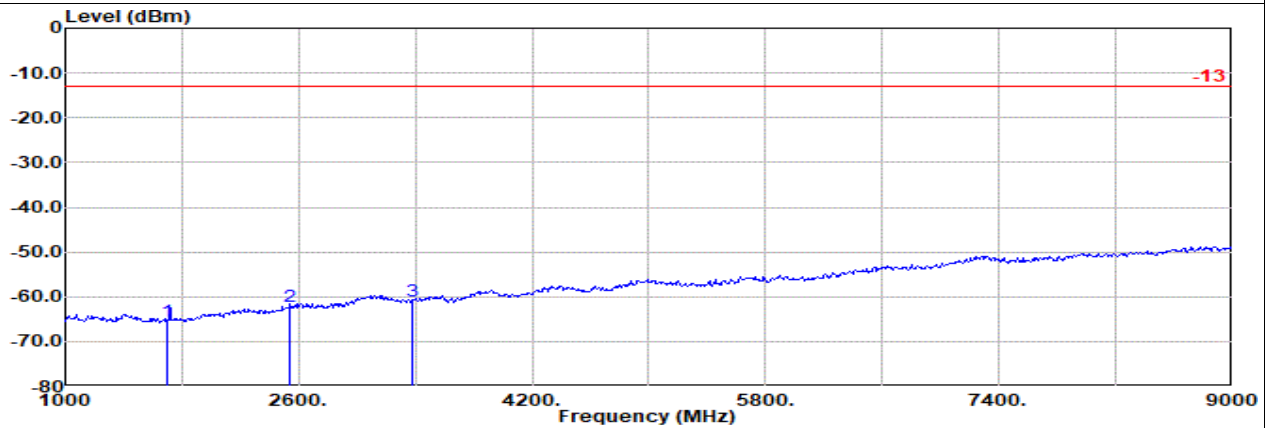
WCDMA B5 Ch4233

H



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal
Mode : WCDMA Band V Ch4233

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	1696.00	-65.26	RMS	25.30	-31.93	0.31	-95.23	36.29	-13.00	-52.26
2	2536.00	-62.50	RMS	28.04	-30.61	0.21	-95.23	35.09	-13.00	-49.50
3	3384.00	-60.87	RMS	29.67	-29.66	0.23	-95.23	34.12	-13.00	-47.87



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical
Mode : WCDMA Band V Ch4233

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	1696.00	-65.46	RMS	25.30	-31.93	0.31	-95.23	36.09	-13.00	-52.46
2	2536.00	-62.23	RMS	28.04	-30.61	0.21	-95.23	35.36	-13.00	-49.23
3	3384.00	-60.83	RMS	29.67	-29.66	0.23	-95.23	34.16	-13.00	-47.83

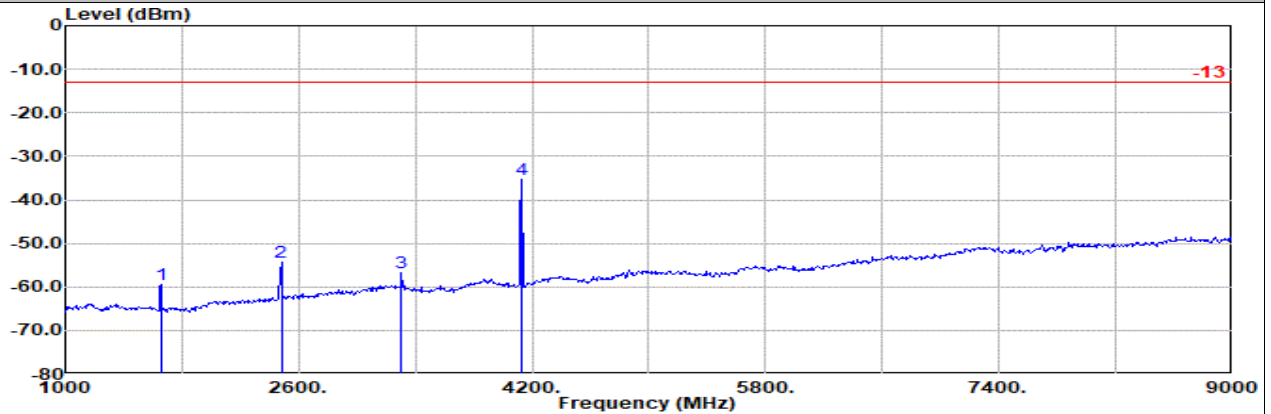


1

Part 22H Mode 2

GSM 850 Ch128

L

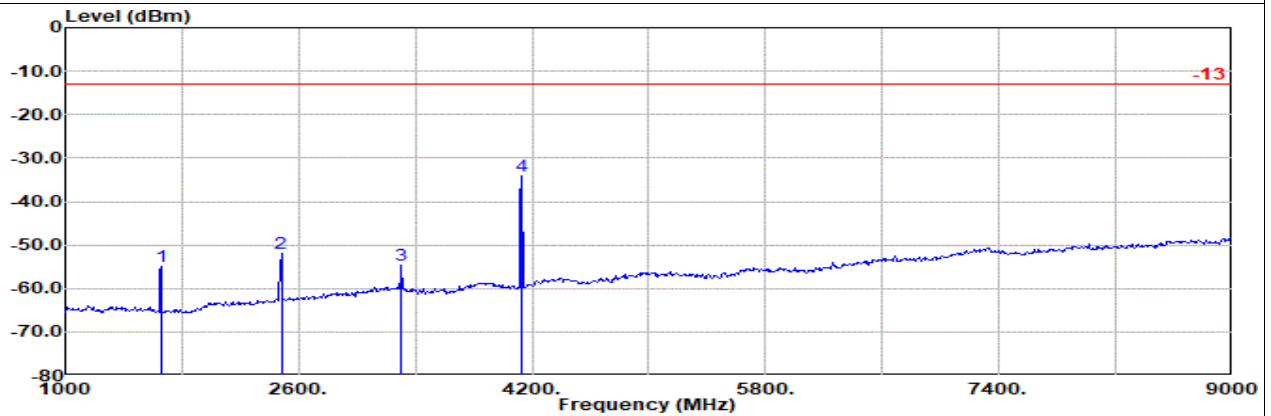


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

Mode : GSM 850 Ch128

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1656.00	-59.53	RMS	25.30	-32.00	0.35	-95.23	42.05	-13.00	-46.53	Horizontal
2	2480.00	-54.21	RMS	27.78	-30.70	0.22	-95.23	43.72	-13.00	-41.21	Horizontal
3	3304.00	-56.80	RMS	29.60	-29.74	0.25	-95.23	38.32	-13.00	-43.80	Horizontal
4	4128.00	-35.36	RMS	31.06	-29.16	0.28	-95.23	57.69	-13.00	-22.36	Horizontal



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

Mode : GSM 850 Ch128

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin g	Limit	Margin	Pol
				Factor	l						
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1656.00	-54.97	RMS	25.30	-32.00	0.35	-95.23	46.61	-13.00	-41.97	Vertical
2	2480.00	-51.87	RMS	27.78	-30.70	0.22	-95.23	46.06	-13.00	-38.87	Vertical
3	3304.00	-54.63	RMS	29.60	-29.74	0.25	-95.23	40.49	-13.00	-41.63	Vertical
4	4128.00	-34.00	RMS	31.06	-29.16	0.28	-95.23	59.05	-13.00	-21.00	Vertical

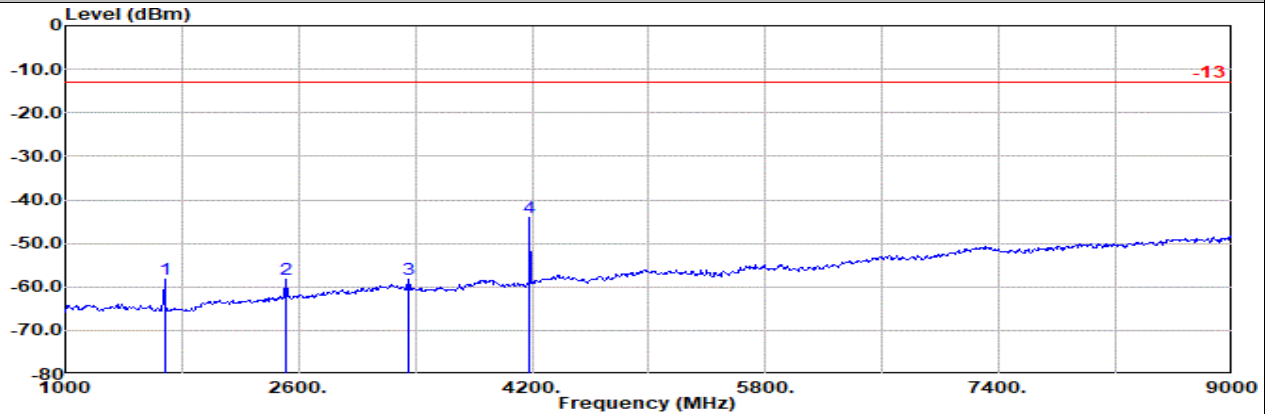


1

Part 22H Mode 2

GSM 850 Ch189

M

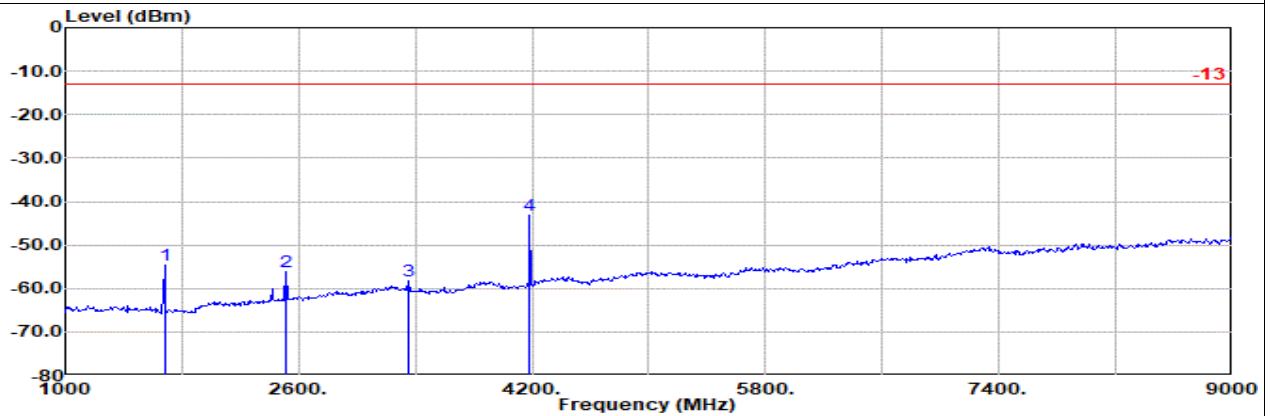


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

Mode : GSM 850 Ch189

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	1680.00	-58.16	RMS	25.30	-31.95	0.32	-95.23	43.40	-13.00	-45.16	Horizontal
2	2512.00	-58.28	RMS	27.95	-30.65	0.21	-95.23	39.44	-13.00	-45.28	Horizontal
3	3352.00	-58.24	RMS	29.60	-29.69	0.24	-95.23	36.84	-13.00	-45.24	Horizontal
4	4184.00	-43.99	RMS	31.10	-29.06	0.30	-95.23	48.90	-13.00	-30.99	Horizontal



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

Mode : GSM 850 Ch189

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	1680.00	-54.74	RMS	25.30	-31.95	0.32	-95.23	46.82	-13.00	-41.74	Vertical
2	2512.00	-56.21	RMS	27.95	-30.65	0.21	-95.23	41.51	-13.00	-43.21	Vertical
3	3352.00	-58.16	RMS	29.60	-29.69	0.24	-95.23	36.92	-13.00	-45.16	Vertical
4	4184.00	-43.27	RMS	31.10	-29.06	0.30	-95.23	49.62	-13.00	-30.27	Vertical

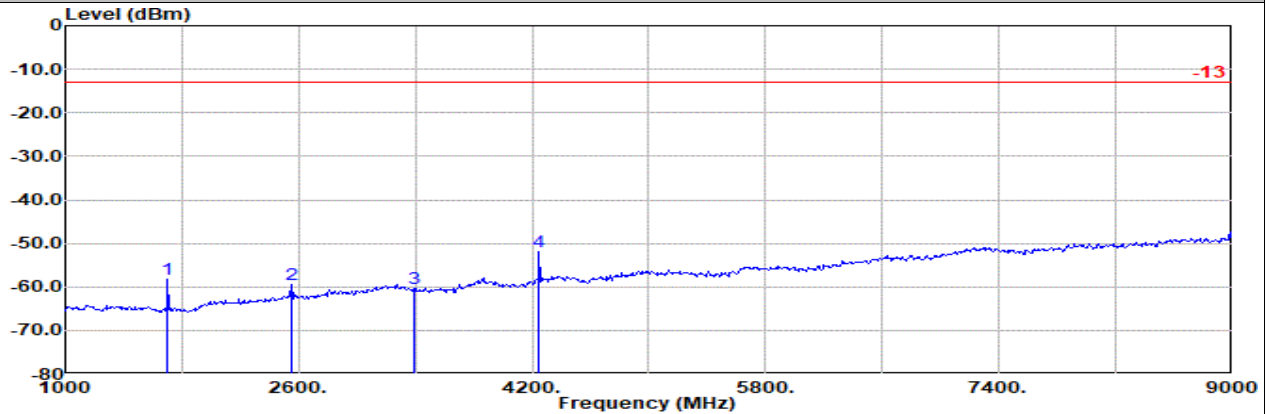


1

Part 22H Mode 2

GSM 850 Ch251

H

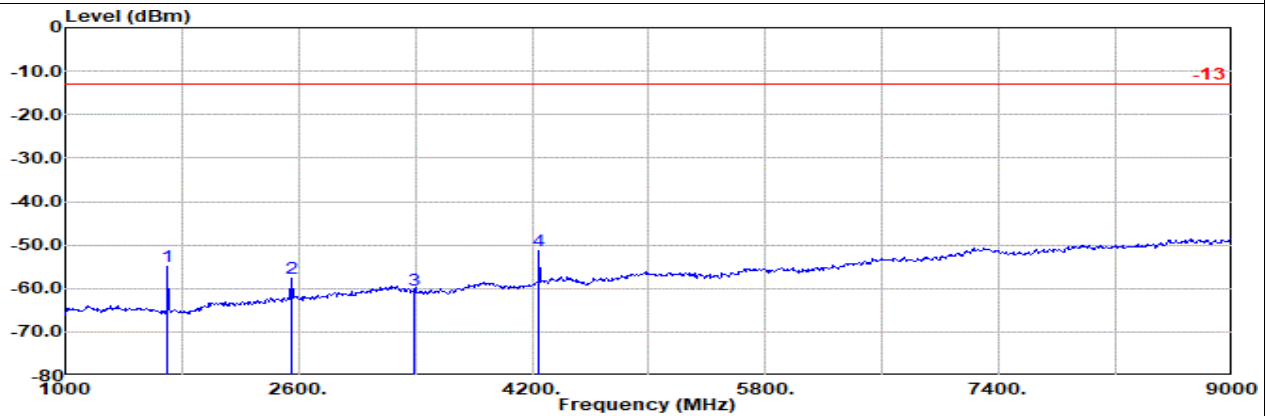


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

Mode : GSM 850 Ch251

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	1704.00	-58.33	RMS	25.31	-31.91	0.30	-95.23	43.20	-13.00	-45.33	Horizontal
2	2552.00	-59.34	RMS	28.10	-30.59	0.21	-95.23	38.17	-13.00	-46.34	Horizontal
3	3395.00	-60.31	RMS	29.69	-29.65	0.23	-95.23	34.65	-13.00	-47.31	Horizontal
4	4248.00	-51.90	RMS	31.20	-28.98	0.31	-95.23	40.80	-13.00	-38.90	Horizontal



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

Mode : GSM 850 Ch251

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	1704.00	-55.09	RMS	25.31	-31.91	0.30	-95.23	46.44	-13.00	-42.09	Vertical
2	2552.00	-57.57	RMS	28.10	-30.59	0.21	-95.23	39.94	-13.00	-44.57	Vertical
3	3395.00	-60.35	RMS	29.69	-29.65	0.23	-95.23	34.61	-13.00	-47.35	Vertical
4	4248.00	-51.32	RMS	31.20	-28.98	0.31	-95.23	41.38	-13.00	-38.32	Vertical

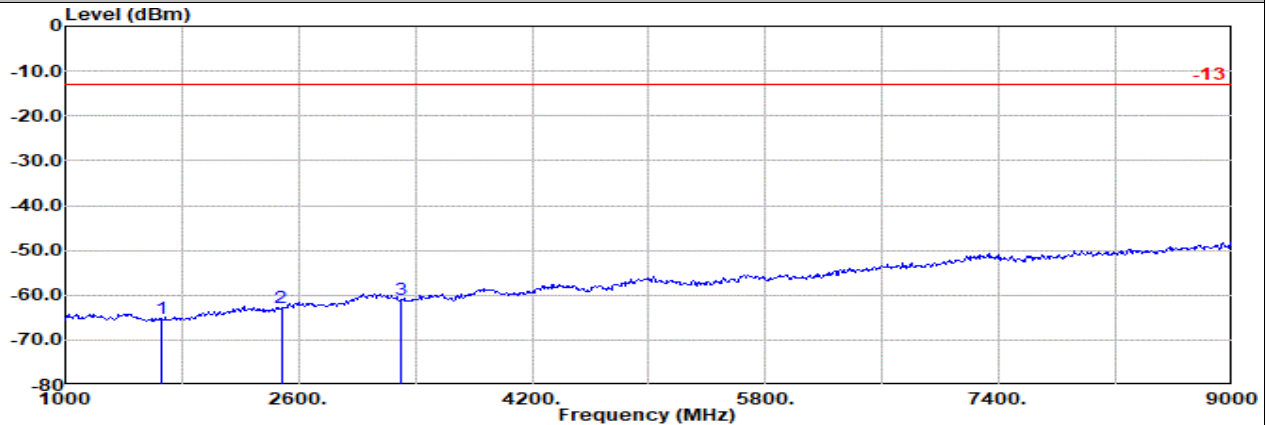


1

Part 22H Mode 4

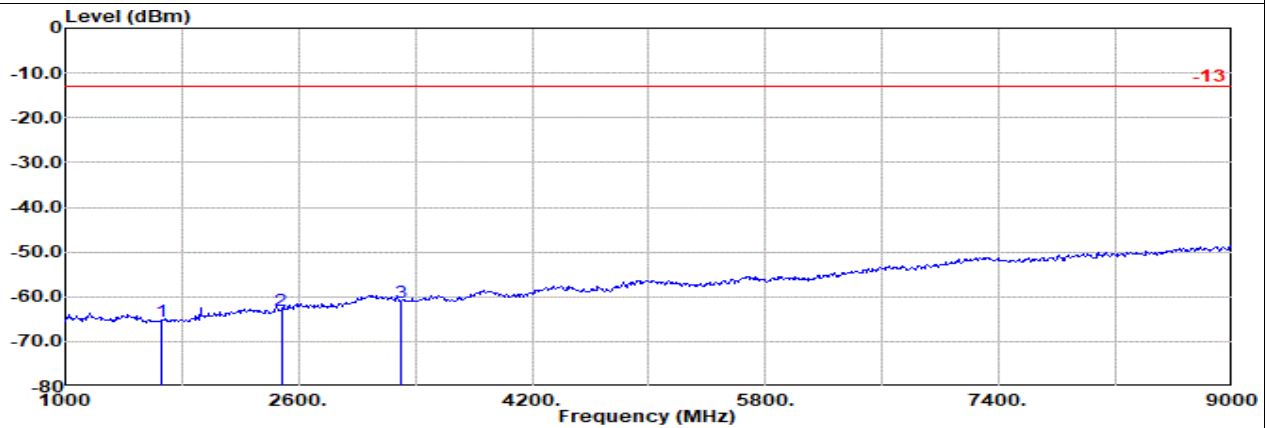
WCDMA B5 Ch4132

L



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal
Mode : WCDMA Band V Ch4132

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF		Readin	Limit	Margin		Pol
				Factor	1		dB	dB					
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB		
1	1656.00	-65.35	RMS		25.30	-32.00	0.35	-95.23	36.23	-13.00	-52.35		Horizontal
2	2480.00	-62.80	RMS		27.78	-30.70	0.22	-95.23	35.13	-13.00	-49.80		Horizontal
3	3304.00	-61.08	RMS		29.60	-29.74	0.25	-95.23	34.04	-13.00	-48.08		Horizontal



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical
Mode : WCDMA Band V Ch4132

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF		Readin	Limit	Margin		Pol
				Factor	1		dB	dB					
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB		
1	1656.00	-65.65	RMS		25.30	-32.00	0.35	-95.23	35.93	-13.00	-52.65		Vertical
2	2480.00	-63.01	RMS		27.78	-30.70	0.22	-95.23	34.92	-13.00	-50.01		Vertical
3	3304.00	-61.24	RMS		29.60	-29.74	0.25	-95.23	33.88	-13.00	-48.24		Vertical

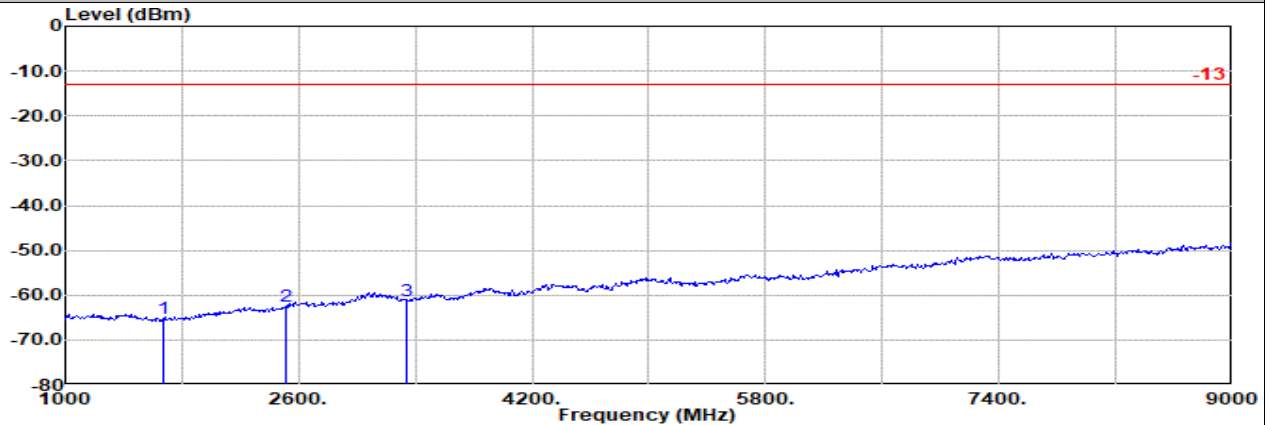


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Part 22H Mode 4

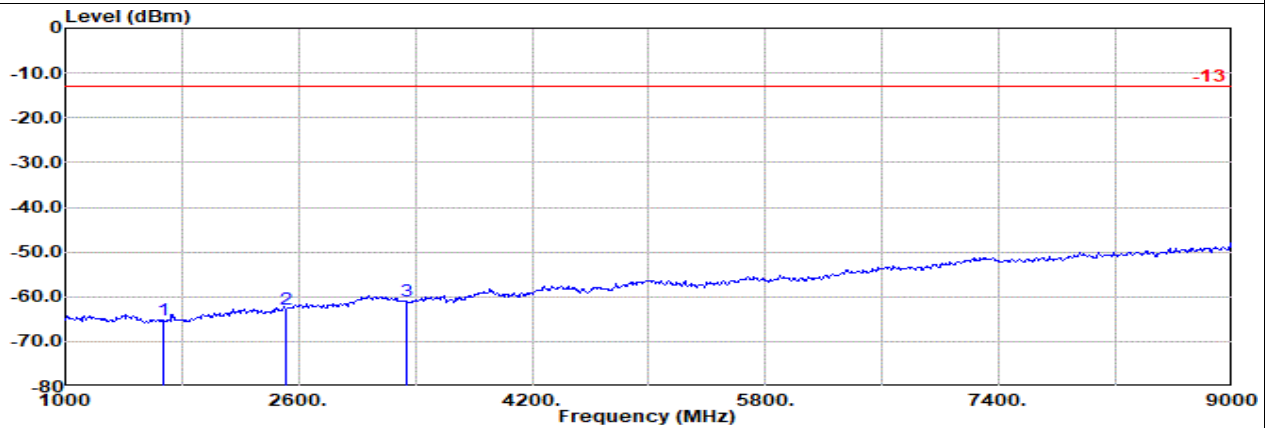
WCDMA B5 Ch4182

M



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal
Mode : WCDMA Band V Ch4182

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	1672.00	-65.19	RMS	25.30	-31.97	0.33	-95.23	36.38	-13.00	-52.19 Horizontal
2	2512.00	-62.64	RMS	27.95	-30.65	0.21	-95.23	35.08	-13.00	-49.64 Horizontal
3	3344.00	-61.27	RMS	29.60	-29.70	0.24	-95.23	33.82	-13.00	-48.27 Horizontal



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical
Mode : WCDMA Band V Ch4182

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	1672.00	-65.26	RMS	25.30	-31.97	0.33	-95.23	36.31	-13.00	-52.26 Vertical
2	2512.00	-62.67	RMS	27.95	-30.65	0.21	-95.23	35.05	-13.00	-49.67 Vertical
3	3344.00	-60.88	RMS	29.60	-29.70	0.24	-95.23	34.21	-13.00	-47.88 Vertical

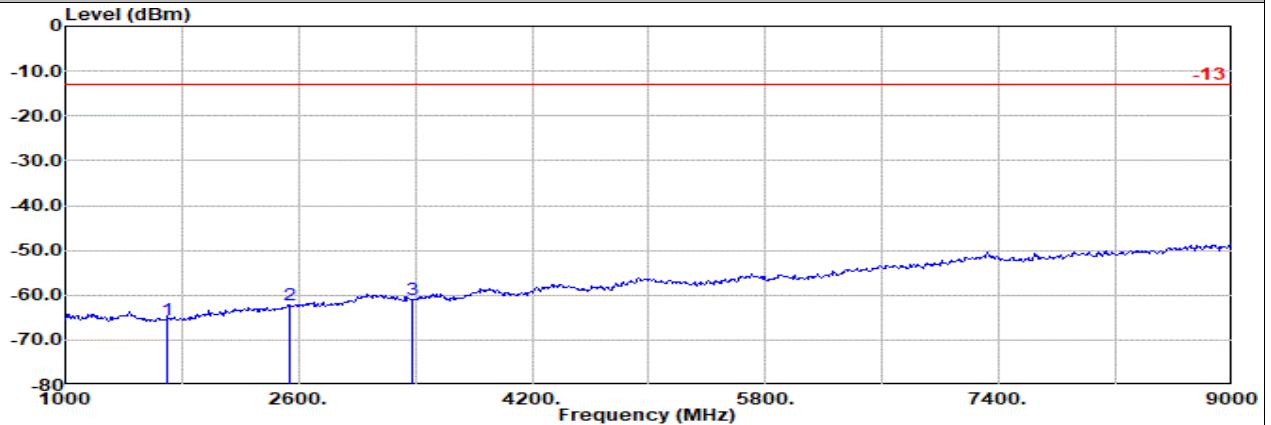


1

Part 22H Mode 4

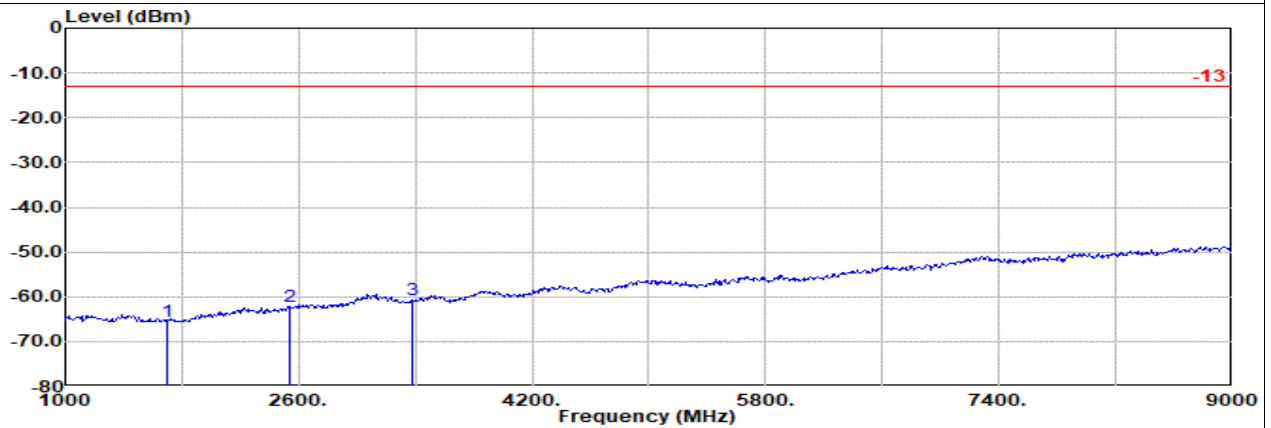
WCDMA B5 Ch4233

H



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal
Mode : WCDMA Band V Ch4233

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		Factor	dB					
1	1696.00	-65.61	RMS	25.30	-31.93	0.31 -95.23	35.94	-13.00	-52.61	Horizontal
2	2536.00	-62.10	RMS	28.04	-30.61	0.21 -95.23	35.49	-13.00	-49.10	Horizontal
3	3384.00	-61.02	RMS	29.67	-29.66	0.23 -95.23	33.97	-13.00	-48.02	Horizontal



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical
Mode : WCDMA Band V Ch4233

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		Factor	dB					
1	1696.00	-65.47	RMS	25.30	-31.93	0.31 -95.23	36.08	-13.00	-52.47	Vertical
2	2536.00	-62.22	RMS	28.04	-30.61	0.21 -95.23	35.37	-13.00	-49.22	Vertical
3	3384.00	-60.82	RMS	29.67	-29.66	0.23 -95.23	34.17	-13.00	-47.82	Vertical

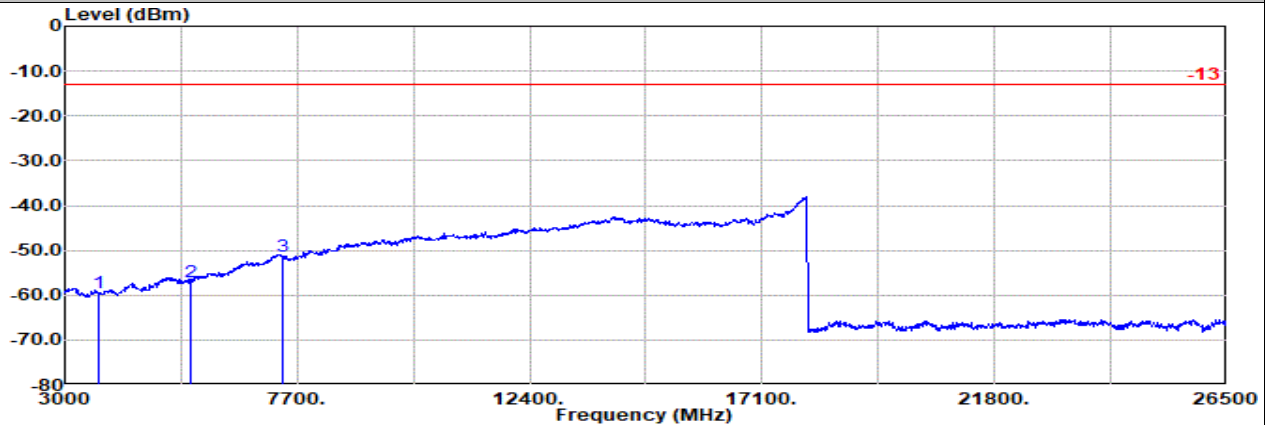


2

Part 24E Mode 1

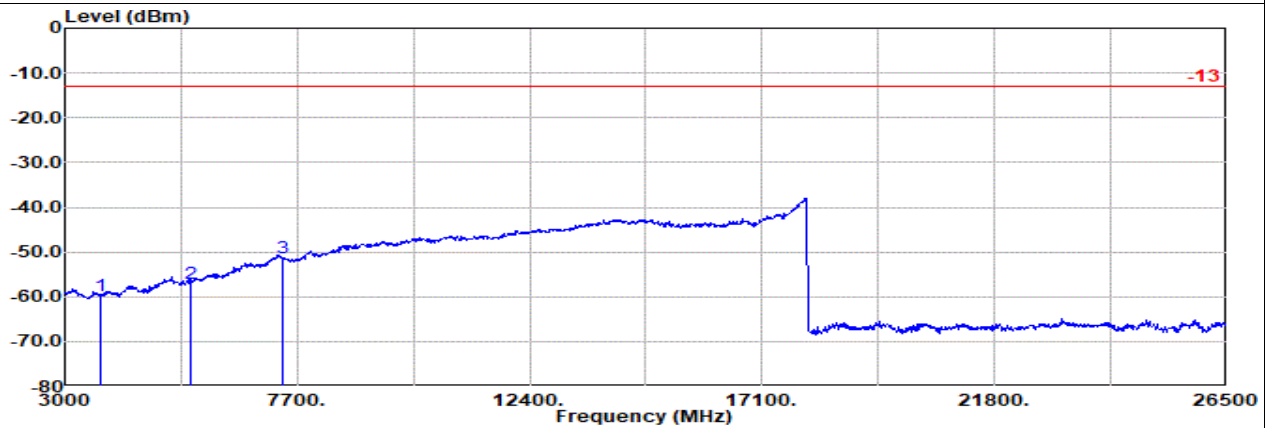
GSM 1900 Ch512

L



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal
: GSM 1900 Ch512

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	3700.00	-59.51	RMS	29.80	-29.46	0.81	-95.23	34.57	-13.00	-46.51 Horizontal
2	5550.00	-56.96	RMS	33.00	-27.67	0.35	-95.23	32.59	-13.00	-43.96 Horizontal
3	7395.00	-51.46	RMS	36.43	-26.20	0.27	-95.23	33.27	-13.00	-38.46 Horizontal



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical
: GSM 1900 Ch512

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	3705.00	-59.63	RMS	29.84	-29.46	0.80	-95.23	34.42	-13.00	-46.63 Vertical
2	5550.00	-57.09	RMS	33.00	-27.67	0.35	-95.23	32.46	-13.00	-44.09 Vertical
3	7400.00	-51.20	RMS	36.40	-26.20	0.27	-95.23	33.56	-13.00	-38.20 Vertical

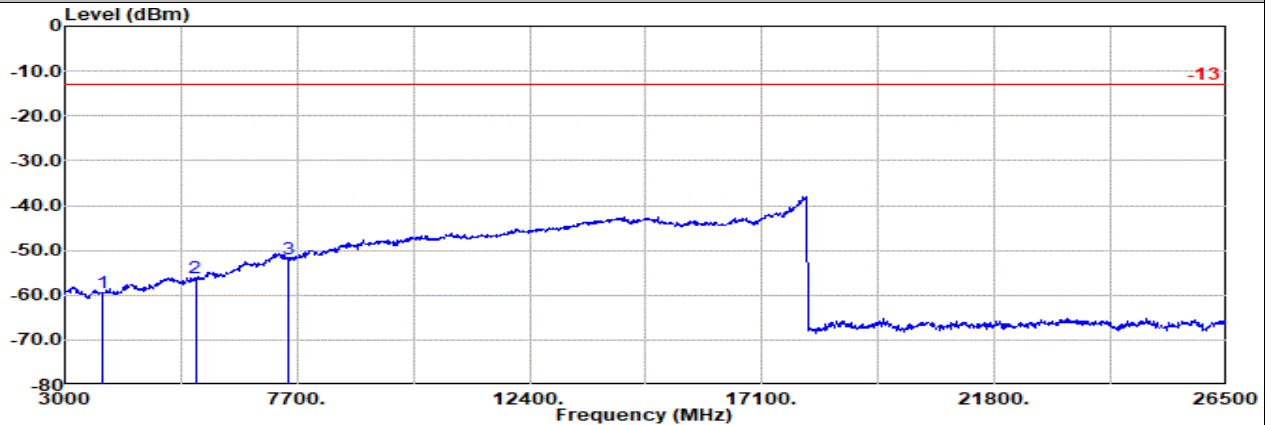


2

Part 24E Mode 1

GSM 1900 Ch661

M

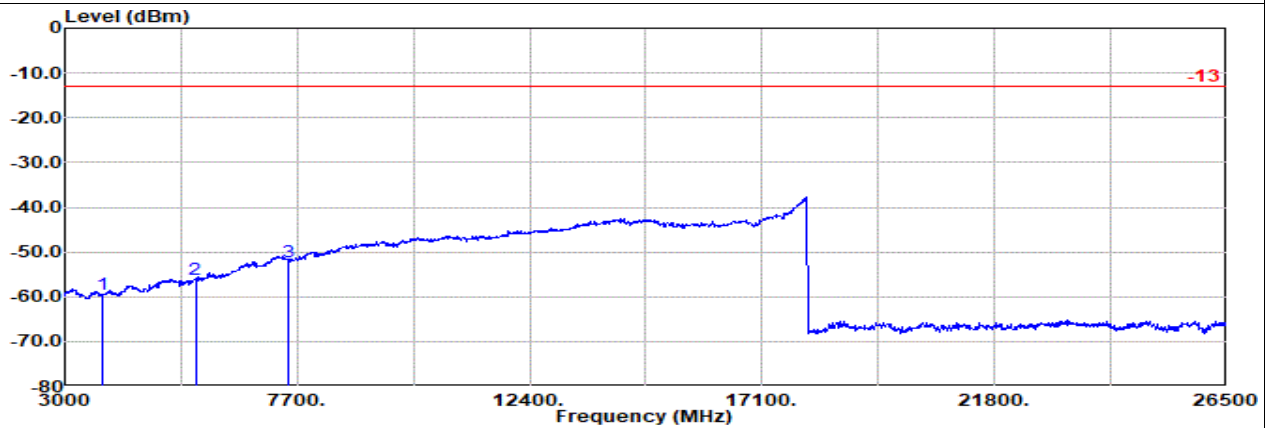


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

: GSM 1900 Ch661

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3760.00	-59.59	RMS	30.26	-29.43	0.73	-95.23	34.08	-13.00	-46.59 Horizontal
2	5640.00	-56.21	RMS	33.24	-27.64	0.33	-95.23	33.09	-13.00	-43.21 Horizontal
3	7515.00	-51.92	RMS	36.17	-26.17	0.18	-95.23	33.13	-13.00	-38.92 Horizontal



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

: GSM 1900 Ch661

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3765.00	-59.40	RMS	30.29	-29.42	0.73	-95.23	34.23	-13.00	-46.40 Vertical
2	5640.00	-56.03	RMS	33.24	-27.64	0.33	-95.23	33.27	-13.00	-43.03 Vertical
3	7520.00	-52.17	RMS	36.16	-26.17	0.18	-95.23	32.89	-13.00	-39.17 Vertical

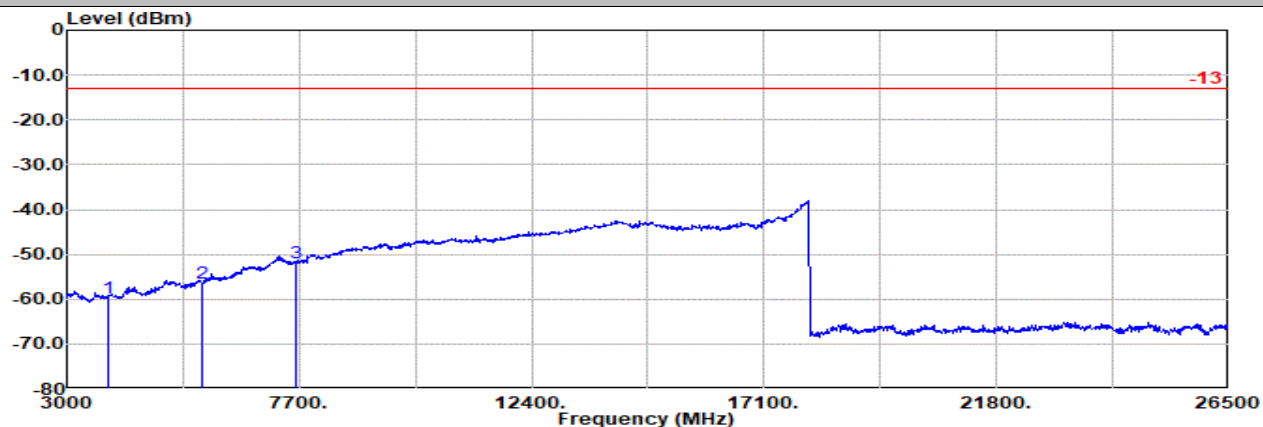


2

Part 24E Mode 1

GSM 1900 Ch810

H

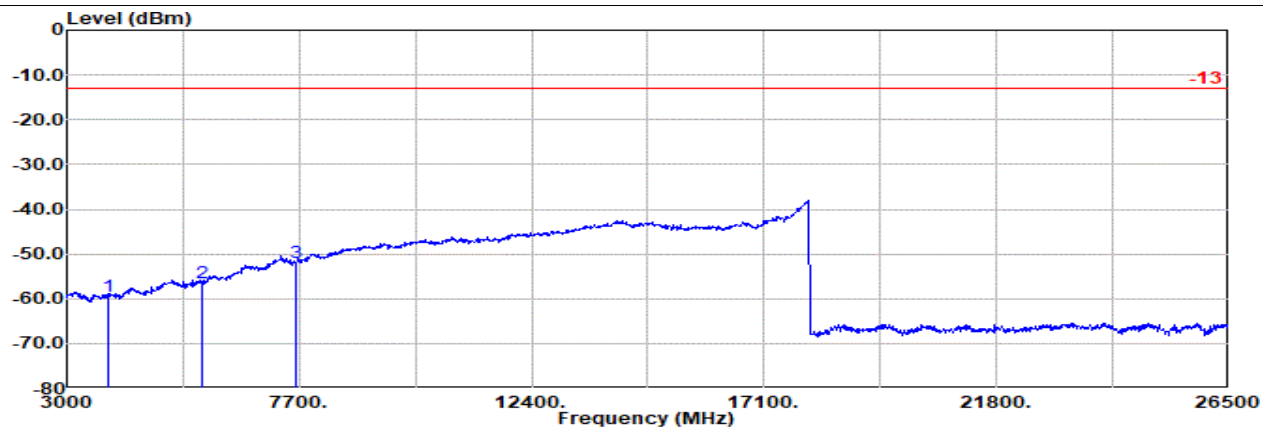


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

: GSM 1900 Ch810

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3819.00	-59.65	RMS	30.65	-29.40	0.68	-95.23	33.65	-13.00	-46.65	Horizontal			
2	5729.00	-56.37	RMS	33.76	-27.56	0.31	-95.23	32.35	-13.00	-43.37	Horizontal			
3	7635.00	-51.98	RMS	36.34	-26.18	0.16	-95.23	32.93	-13.00	-38.98	Horizontal			



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

: GSM 1900 Ch810

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3825.00	-59.57	RMS	30.70	-29.40	0.68	-95.23	33.68	-13.00	-46.57	Vertical			
2	5729.00	-56.35	RMS	33.76	-27.56	0.31	-95.23	32.37	-13.00	-43.35	Vertical			
3	7639.00	-51.99	RMS	36.36	-26.18	0.16	-95.23	32.90	-13.00	-38.99	Vertical			

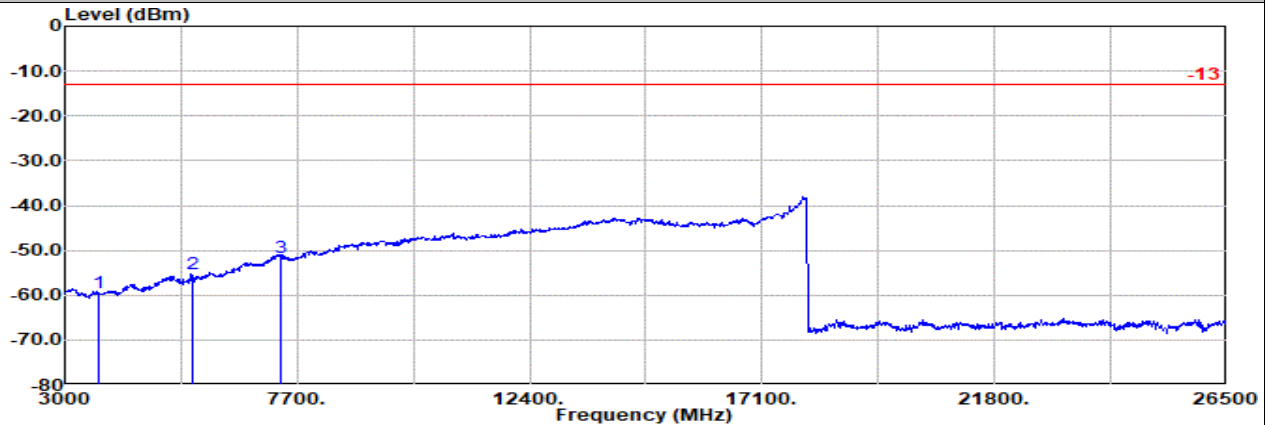


2

Part 24E Mode 3

WCDMA B2 Ch9262

L

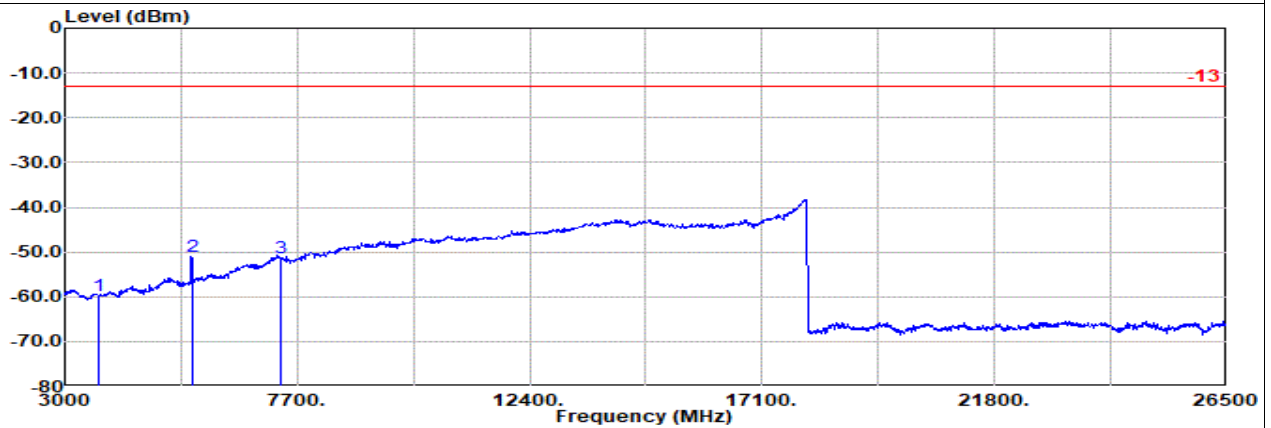


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

: WCDMA 1852.4 Ch9262

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	EIRPCF		Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB	
1	3690.00	-59.57	RMS	29.78	-29.46	0.82	-95.23	34.52	-13.00	-46.57	Horizontal		
2	5565.00	-55.36	RMS	33.00	-27.67	0.35	-95.23	34.19	-13.00	-42.36	Horizontal		
3	7380.00	-51.54	RMS	36.52	-26.21	0.27	-95.23	33.11	-13.00	-38.54	Horizontal		



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

: WCDMA 1852.4 Ch9262

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	EIRPCF		Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB	
1	3690.00	-59.91	RMS	29.78	-29.46	0.82	-95.23	34.18	-13.00	-46.91	Vertical		
2	5565.00	-50.97	RMS	33.00	-27.67	0.35	-95.23	38.58	-13.00	-37.97	Vertical		
3	7380.00	-51.40	RMS	36.52	-26.21	0.27	-95.23	33.25	-13.00	-38.40	Vertical		

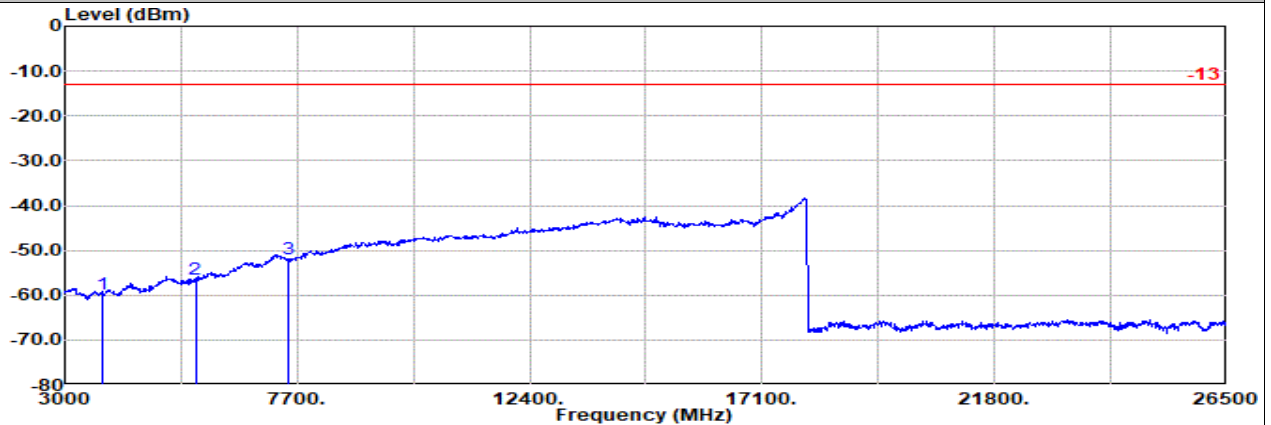


2

Part 24E Mode 3

WCDMA B2 Ch9400

M

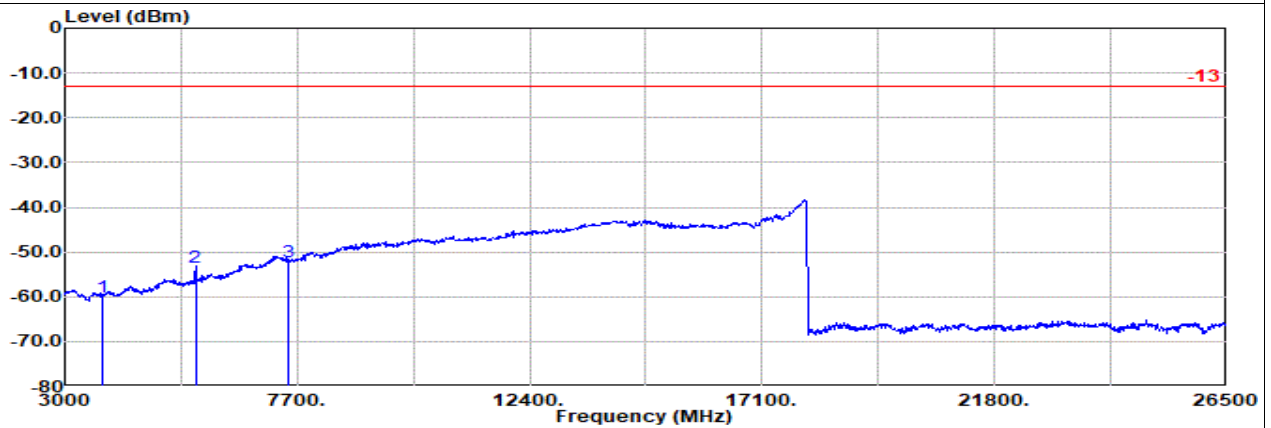


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

: WCDMA 1880 Ch9400

	Freq MHz	Level dBm	Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit	Margin Pol	
				Factor	1					
1	3765.00	-59.74	RMS	30.29	-29.42	0.73	-95.23	33.89	-13.00	-46.74 Horizontal
2	5640.00	-56.41	RMS	33.24	-27.64	0.33	-95.23	32.89	-13.00	-43.41 Horizontal
3	7515.00	-51.93	RMS	36.17	-26.17	0.18	-95.23	33.12	-13.00	-38.93 Horizontal



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

: WCDMA 1880 Ch9400

	Freq MHz	Level dBm	Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit	Margin Pol	
				Factor	1					
1	3765.00	-59.93	RMS	30.29	-29.42	0.73	-95.23	33.70	-13.00	-46.93 Vertical
2	5640.00	-53.30	RMS	33.24	-27.64	0.33	-95.23	36.00	-13.00	-40.30 Vertical
3	7515.00	-52.38	RMS	36.17	-26.17	0.18	-95.23	32.67	-13.00	-39.38 Vertical

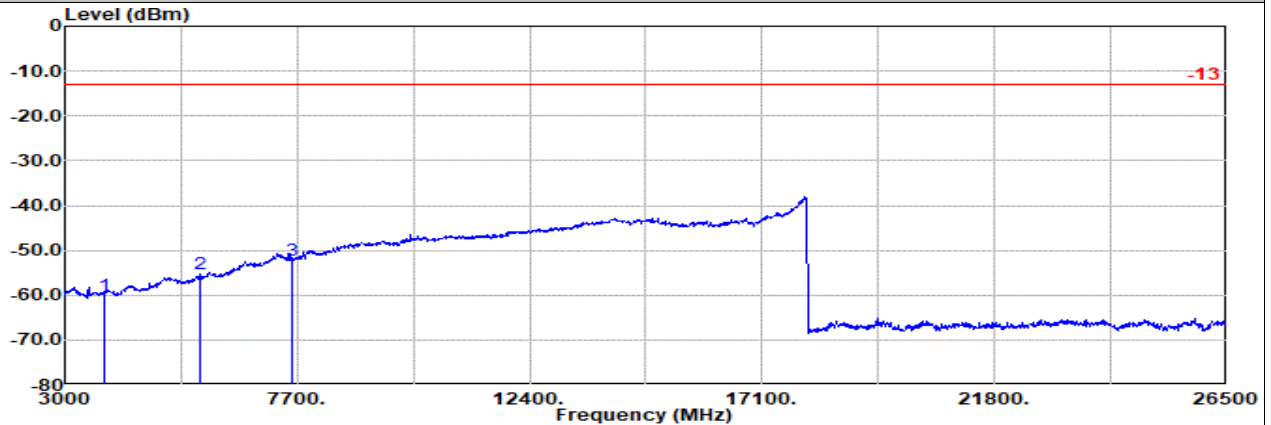


2

Part 24E Mode 3

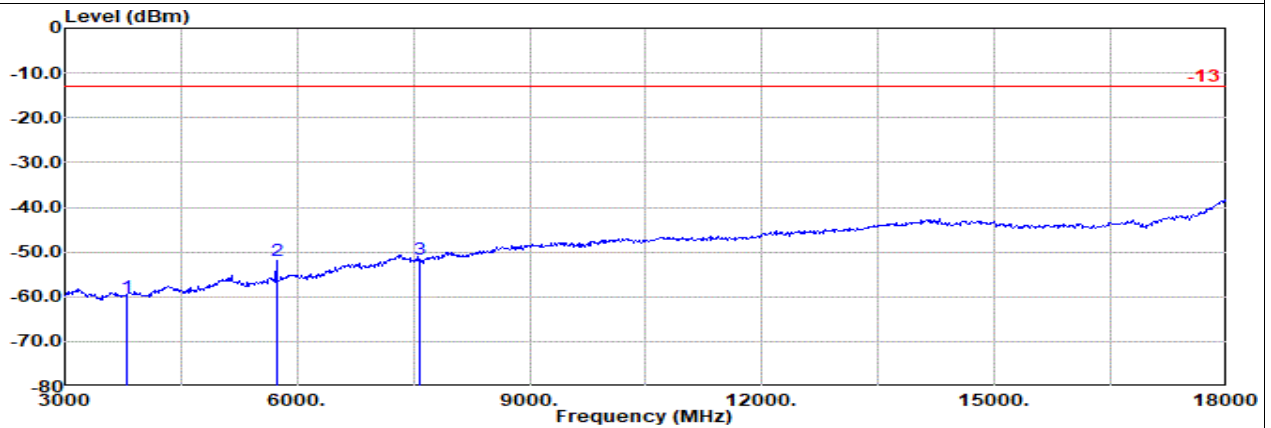
WCDMA B2 Ch9538

H



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal
: WCDMA 1907.6 Ch9538

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1		g			
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3795.00	-59.97	RMS	30.47	-29.41	0.69	-95.23	33.51	-13.00	-46.97 Horizontal
2	5730.00	-55.27	RMS	33.76	-27.56	0.31	-95.23	33.45	-13.00	-42.27 Horizontal
3	7590.00	-52.22	RMS	36.18	-26.18	0.13	-95.23	32.88	-13.00	-39.22 Horizontal



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical
: WCDMA 1907.6 Ch9538

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1		g			
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3795.00	-59.96	RMS	30.47	-29.41	0.69	-95.23	33.52	-13.00	-46.96 Vertical
2	5730.00	-51.85	RMS	33.76	-27.56	0.31	-95.23	36.87	-13.00	-38.85 Vertical
3	7590.00	-51.72	RMS	36.18	-26.18	0.13	-95.23	33.38	-13.00	-38.72 Vertical

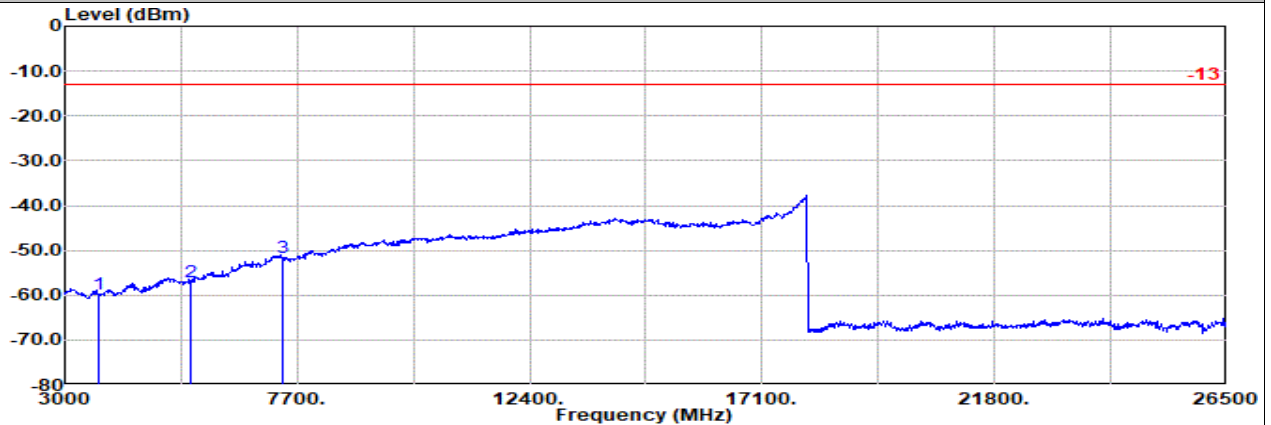


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Part 24E Mode 2

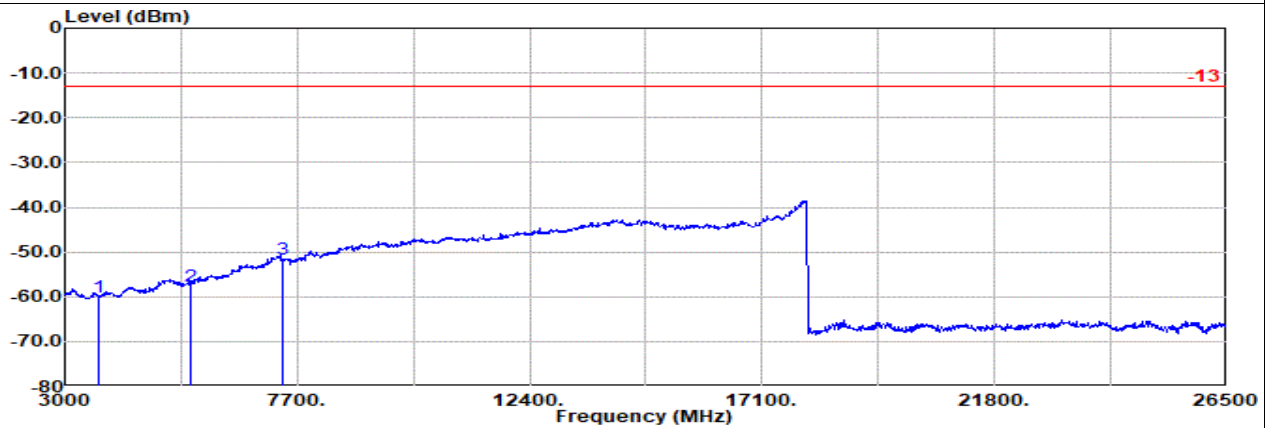
GSM 1900 Ch512

L



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal
: GSM 1900 Ch512

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3700.00	-59.90	RMS	29.80	-29.46	0.81	-95.23	34.18	-13.00	-46.90 Horizontal
2	5550.00	-57.04	RMS	33.00	-27.67	0.35	-95.23	32.51	-13.00	-44.04 Horizontal
3	7400.00	-51.63	RMS	36.40	-26.20	0.27	-95.23	33.13	-13.00	-38.63 Horizontal



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical
: GSM 1900 Ch512

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3700.00	-60.06	RMS	29.80	-29.46	0.81	-95.23	34.02	-13.00	-47.06 Vertical
2	5550.00	-57.62	RMS	33.00	-27.67	0.35	-95.23	31.93	-13.00	-44.62 Vertical
3	7400.00	-51.57	RMS	36.40	-26.20	0.27	-95.23	33.19	-13.00	-38.57 Vertical

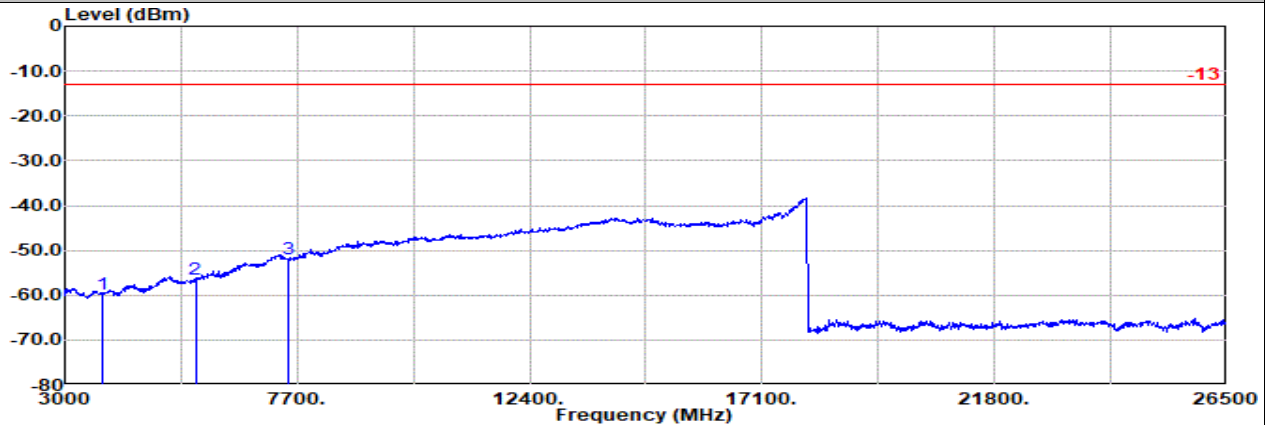


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Part 24E Mode 2

GSM 1900 Ch661

M

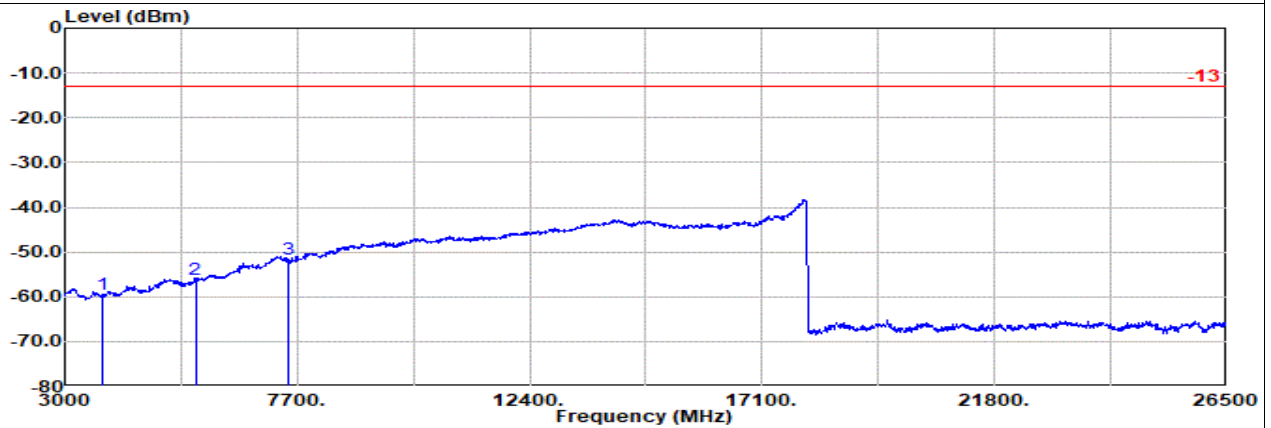


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

: GSM 1900 Ch661

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1		g			
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3760.00	-59.81	RMS	30.26	-29.43	0.73	-95.23	33.86	-13.00	-46.81 Horizontal
2	5640.00	-56.32	RMS	33.24	-27.64	0.33	-95.23	32.98	-13.00	-43.32 Horizontal
3	7520.00	-52.03	RMS	36.16	-26.17	0.18	-95.23	33.03	-13.00	-39.03 Horizontal



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

: GSM 1900 Ch661

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1		g			
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3760.00	-59.59	RMS	30.26	-29.43	0.73	-95.23	34.08	-13.00	-46.59 Vertical
2	5640.00	-56.01	RMS	33.24	-27.64	0.33	-95.23	33.29	-13.00	-43.01 Vertical
3	7520.00	-51.62	RMS	36.16	-26.17	0.18	-95.23	33.44	-13.00	-38.62 Vertical

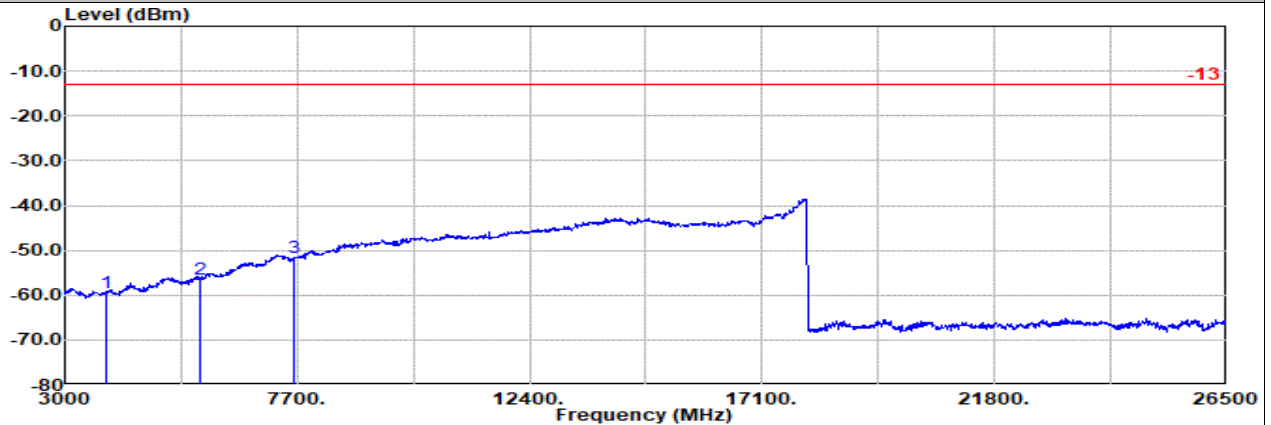


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Part 24E Mode 2

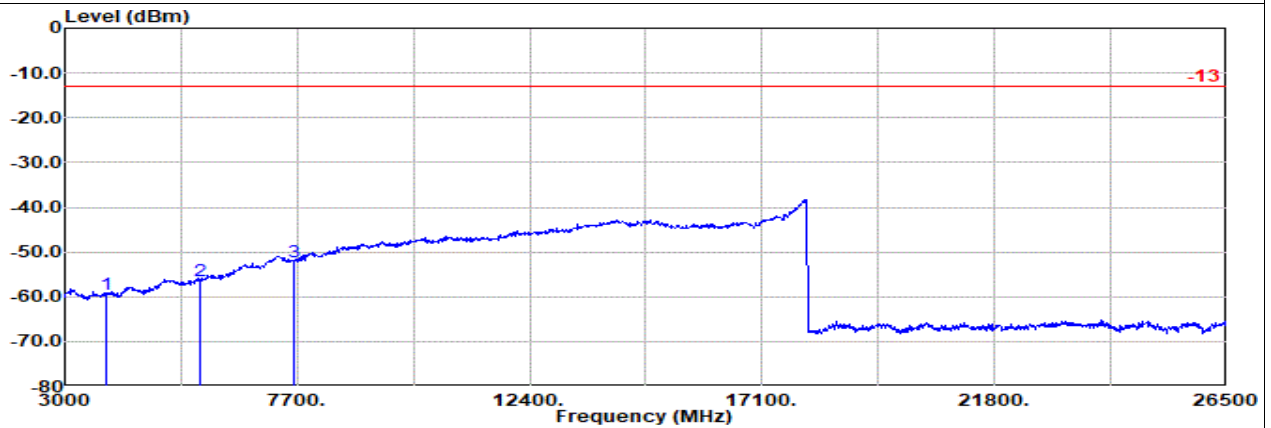
GSM 1900 Ch810

H



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal
: GSM 1900 Ch810

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3819.00	-59.62	RMS	30.65	-29.40	0.68	-95.23	33.68	-13.00	-46.62 Horizontal
2	5729.00	-56.35	RMS	33.76	-27.56	0.31	-95.23	32.37	-13.00	-43.35 Horizontal
3	7639.00	-51.70	RMS	36.36	-26.18	0.16	-95.23	33.19	-13.00	-38.70 Horizontal



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical
: GSM 1900 Ch810

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3819.00	-59.34	RMS	30.65	-29.40	0.68	-95.23	33.96	-13.00	-46.34 Vertical
2	5729.00	-56.46	RMS	33.76	-27.56	0.31	-95.23	32.26	-13.00	-43.46 Vertical
3	7639.00	-52.21	RMS	36.36	-26.18	0.16	-95.23	32.68	-13.00	-39.21 Vertical

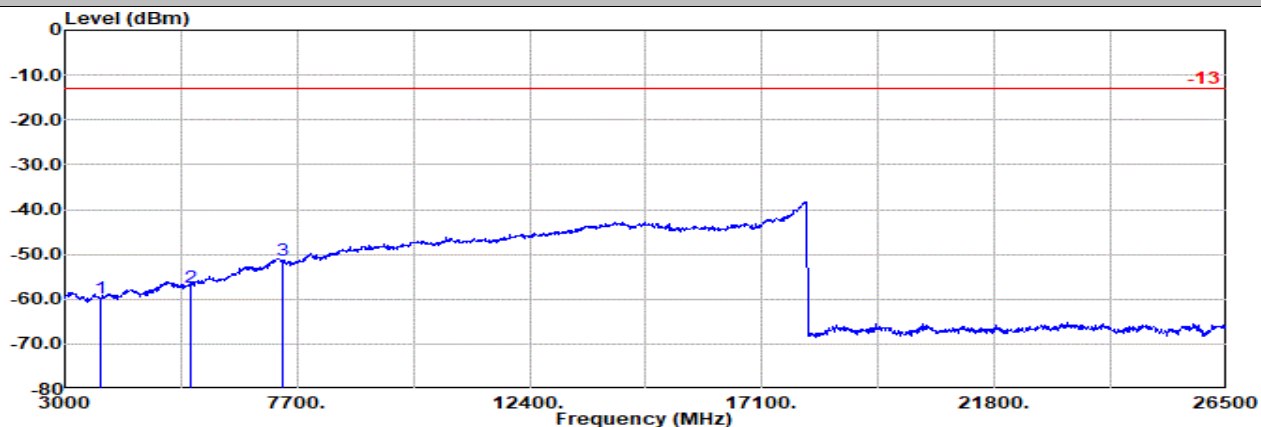


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Part 24E Mode 4

WCDMA B2 Ch9262

L

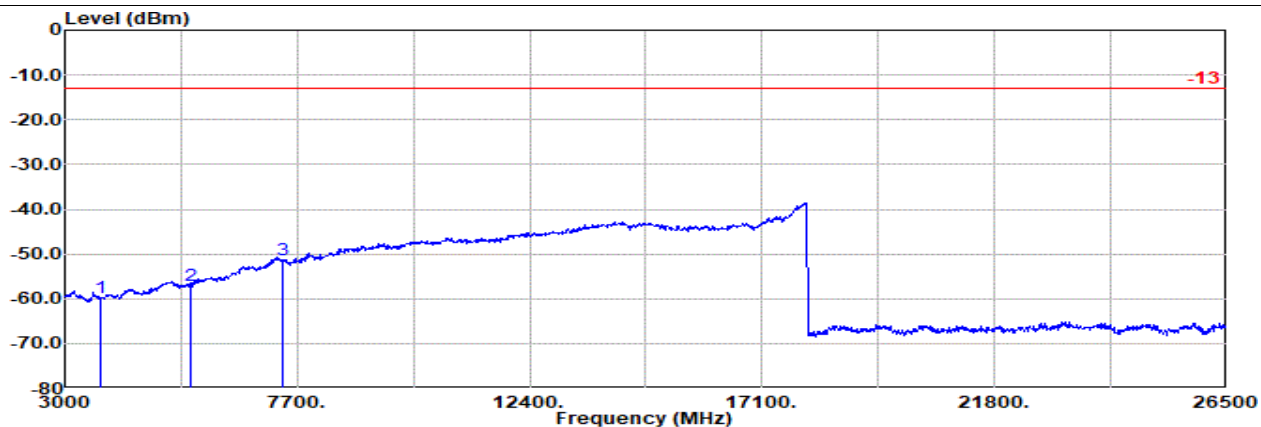


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

: WCDMA 1852.4 Ch9262

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3705.00	-59.90	RMS	29.84	-29.46	0.80	-95.23	34.15	-13.00	-46.90	Horizontal			
2	5550.00	-57.42	RMS	33.00	-27.67	0.35	-95.23	32.13	-13.00	-44.42	Horizontal			
3	7410.00	-51.46	RMS	36.38	-26.20	0.26	-95.23	33.33	-13.00	-38.46	Horizontal			



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

: WCDMA 1852.4 Ch9262

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3705.00	-59.84	RMS	29.84	-29.46	0.80	-95.23	34.21	-13.00	-46.84	Vertical			
2	5550.00	-57.06	RMS	33.00	-27.67	0.35	-95.23	32.49	-13.00	-44.06	Vertical			
3	7410.00	-51.36	RMS	36.38	-26.20	0.26	-95.23	33.43	-13.00	-38.36	Vertical			

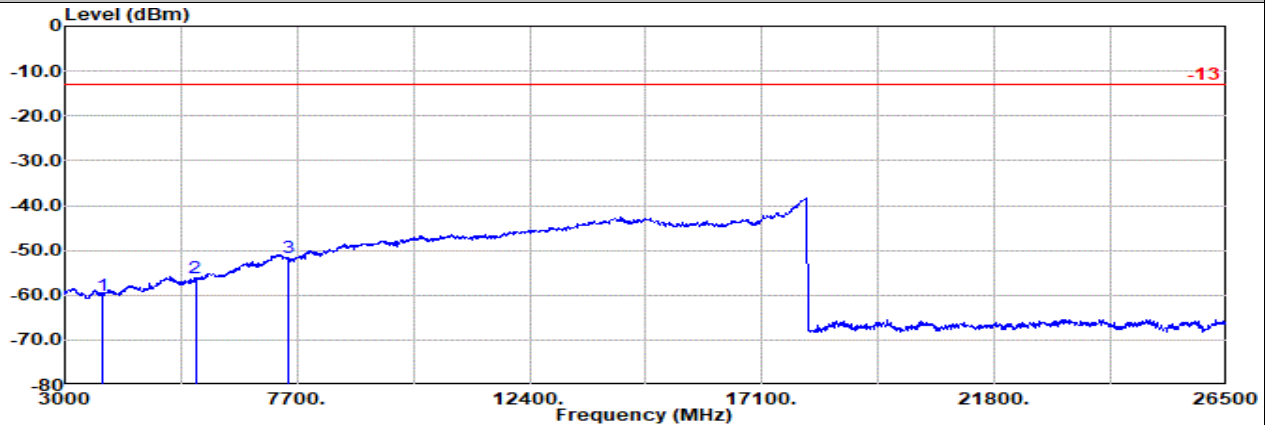


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Part 24E Mode 4

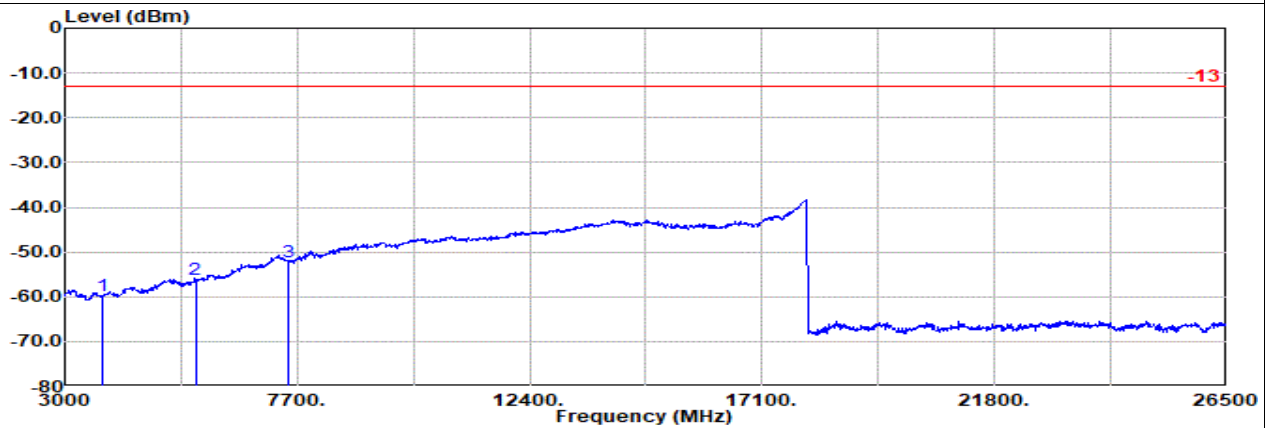
WCDMA B2 Ch9400

M



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal
: WCDMA 1880 Ch9400

	Freq MHz	Level dBm	Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit	Margin Pol	
				Factor	1					
1	3765.00	-59.93	RMS	30.29	-29.42	0.73	-95.23	33.70	-13.00	-46.93 Horizontal
2	5640.00	-56.27	RMS	33.24	-27.64	0.33	-95.23	33.03	-13.00	-43.27 Horizontal
3	7515.00	-51.73	RMS	36.17	-26.17	0.18	-95.23	33.32	-13.00	-38.73 Horizontal



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical
: WCDMA 1880 Ch9400

	Freq MHz	Level dBm	Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit	Margin Pol	
				Factor	1					
1	3765.00	-59.89	RMS	30.29	-29.42	0.73	-95.23	33.74	-13.00	-46.89 Vertical
2	5640.00	-56.14	RMS	33.24	-27.64	0.33	-95.23	33.16	-13.00	-43.14 Vertical
3	7515.00	-52.10	RMS	36.17	-26.17	0.18	-95.23	32.95	-13.00	-39.10 Vertical

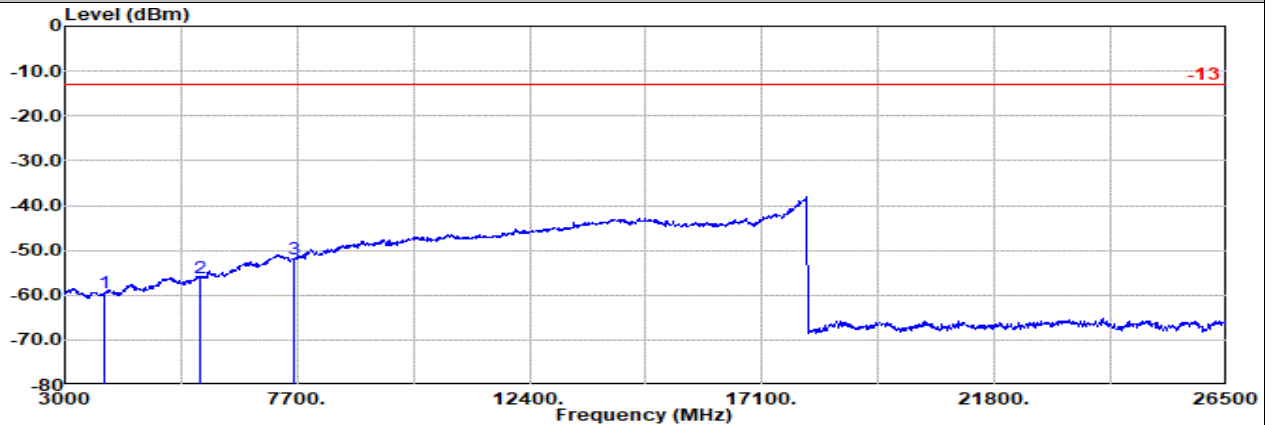


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Part 24E Mode 4

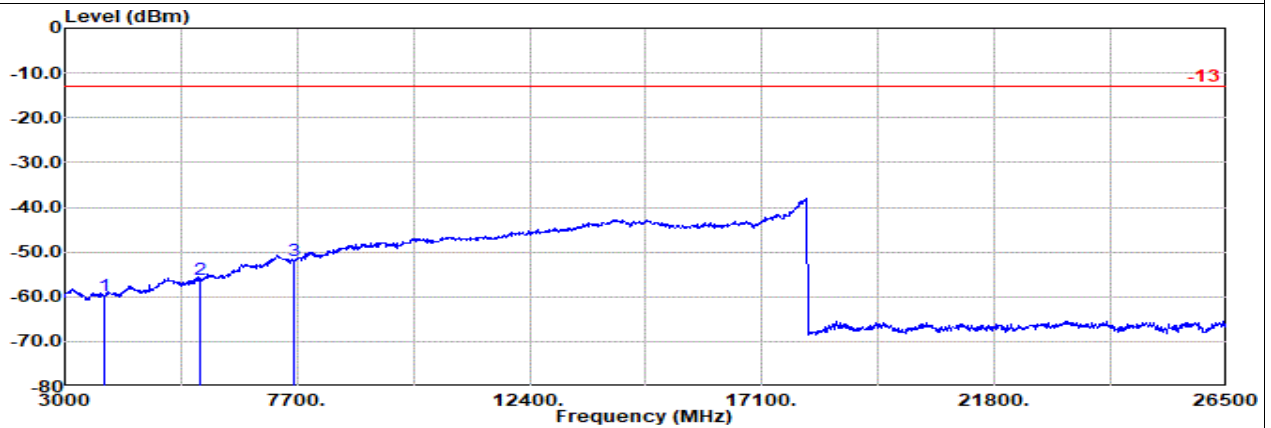
WCDMA B2 Ch9538

H



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal
: WCDMA 1907.6 Ch9538

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3815.00	-59.57	RMS	30.62	-29.40	0.68	-95.23	33.76	-13.00	-46.57 Horizontal
2	5723.00	-56.10	RMS	33.75	-27.57	0.31	-95.23	32.64	-13.00	-43.10 Horizontal
3	7630.00	-52.07	RMS	36.32	-26.18	0.15	-95.23	32.87	-13.00	-39.07 Horizontal



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical
: WCDMA 1907.6 Ch9538

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3815.00	-59.66	RMS	30.62	-29.40	0.68	-95.23	33.67	-13.00	-46.66 Vertical
2	5723.00	-56.29	RMS	33.75	-27.57	0.31	-95.23	32.45	-13.00	-43.29 Vertical
3	7630.00	-51.95	RMS	36.32	-26.18	0.15	-95.23	32.99	-13.00	-38.95 Vertical

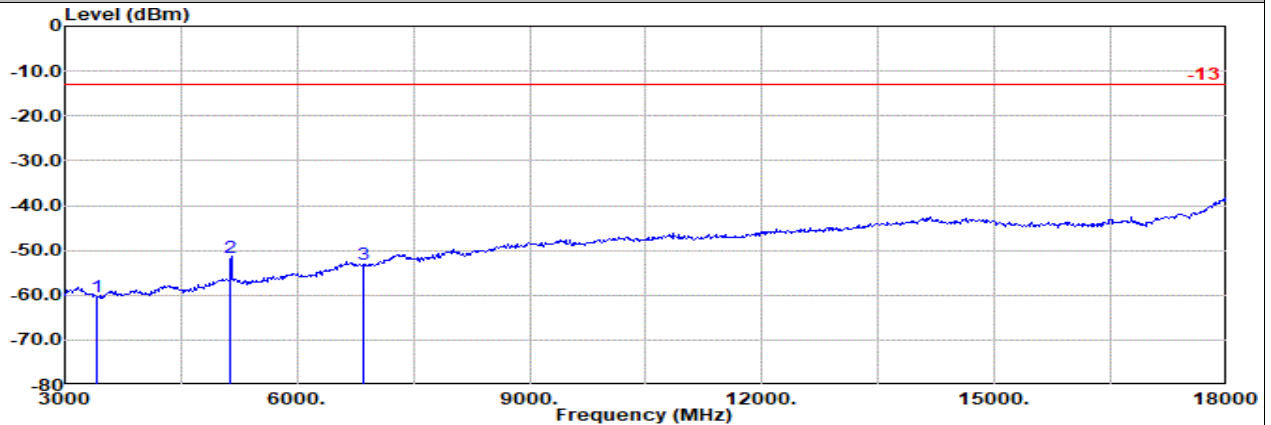


2

Part 27L Mode 1

WCDMA B4 Ch1312

L

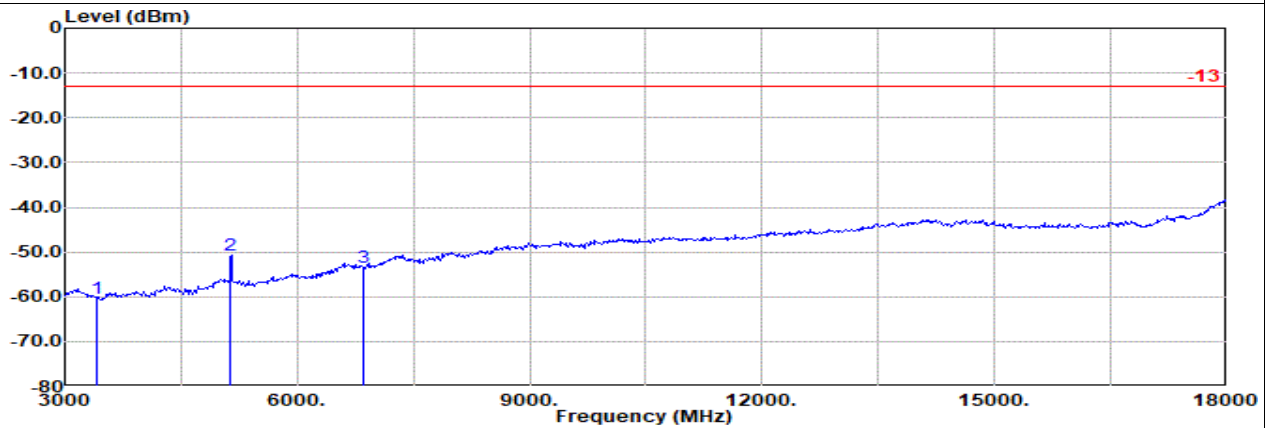


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

: WCDMA B4 Ch1312

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3424.00	-60.44	RMS	29.65	-29.63	1.05	-95.23	33.72	-13.00	-47.44	Horizontal			
2	5137.00	-51.50	RMS	33.15	-27.95	0.50	-95.23	38.03	-13.00	-38.50	Horizontal			
3	6849.00	-53.14	RMS	35.80	-26.56	0.31	-95.23	32.54	-13.00	-40.14	Horizontal			



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

: WCDMA B4 Ch1312

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3424.00	-60.32	RMS	29.65	-29.63	1.05	-95.23	33.84	-13.00	-47.32	Vertical			
2	5137.00	-50.82	RMS	33.15	-27.95	0.50	-95.23	38.71	-13.00	-37.82	Vertical			
3	6849.00	-53.45	RMS	35.80	-26.56	0.31	-95.23	32.23	-13.00	-40.45	Vertical			

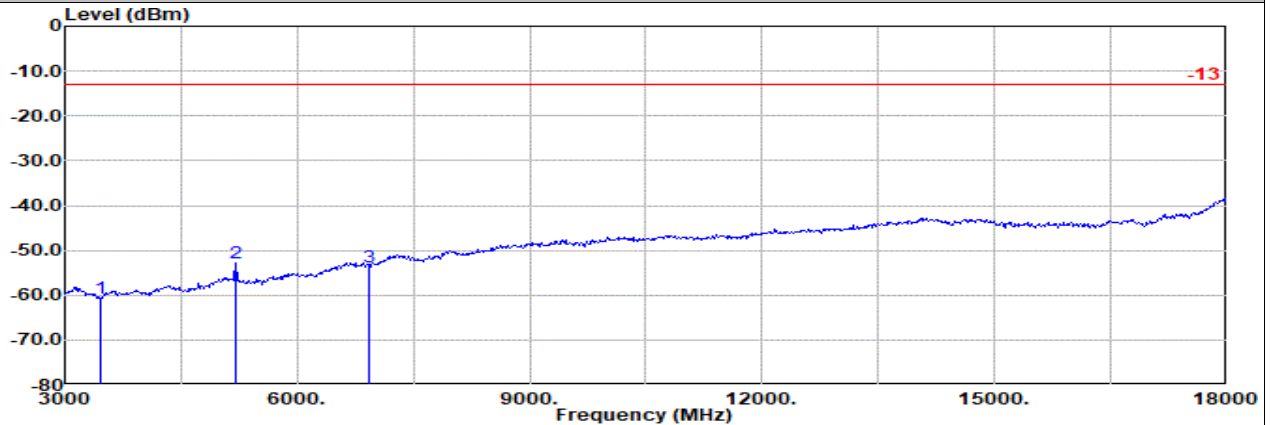


2

Part 27L Mode 1

WCDMA B4 Ch1413

M

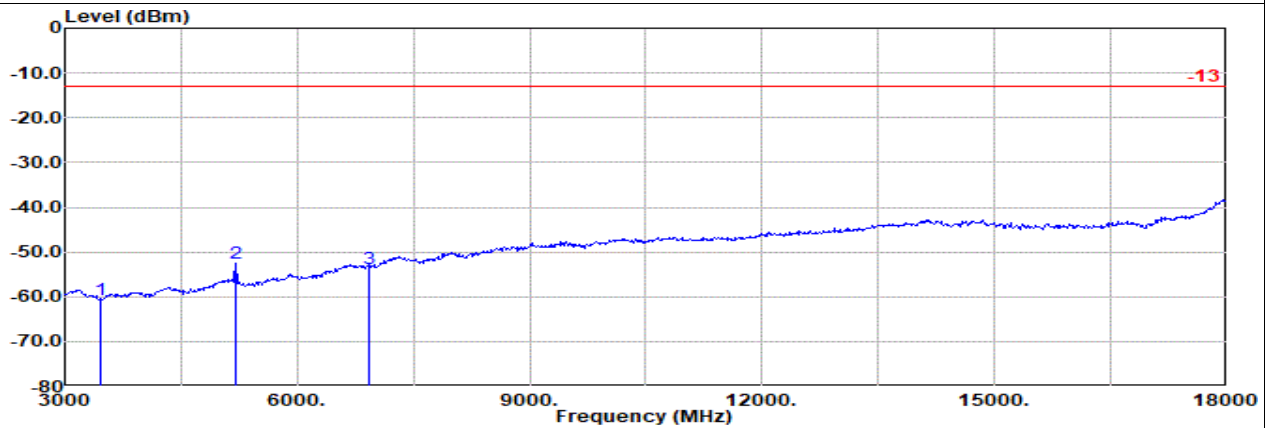


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

: WCDMA B4 Ch1413

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3465.00	-60.61	RMS	29.57	-29.59	1.02	-95.23	33.62	-13.00	-47.61	Horizontal			
2	5197.00	-52.93	RMS	33.01	-27.89	0.51	-95.23	36.67	-13.00	-39.93	Horizontal			
3	6930.00	-53.61	RMS	35.80	-26.53	0.22	-95.23	32.13	-13.00	-40.61	Horizontal			



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

: WCDMA B4 Ch1413

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3465.00	-60.55	RMS	29.57	-29.59	1.02	-95.23	33.68	-13.00	-47.55	Vertical			
2	5197.00	-52.61	RMS	33.01	-27.89	0.51	-95.23	36.99	-13.00	-39.61	Vertical			
3	6930.00	-53.65	RMS	35.80	-26.53	0.22	-95.23	32.09	-13.00	-40.65	Vertical			

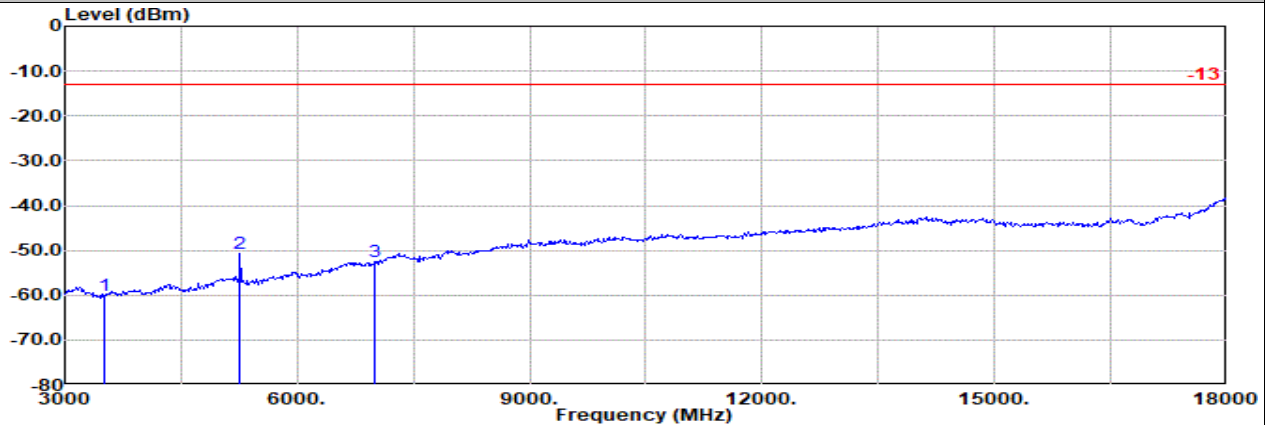


2

Part 27L Mode 1

WCDMA B4 Ch1513

H

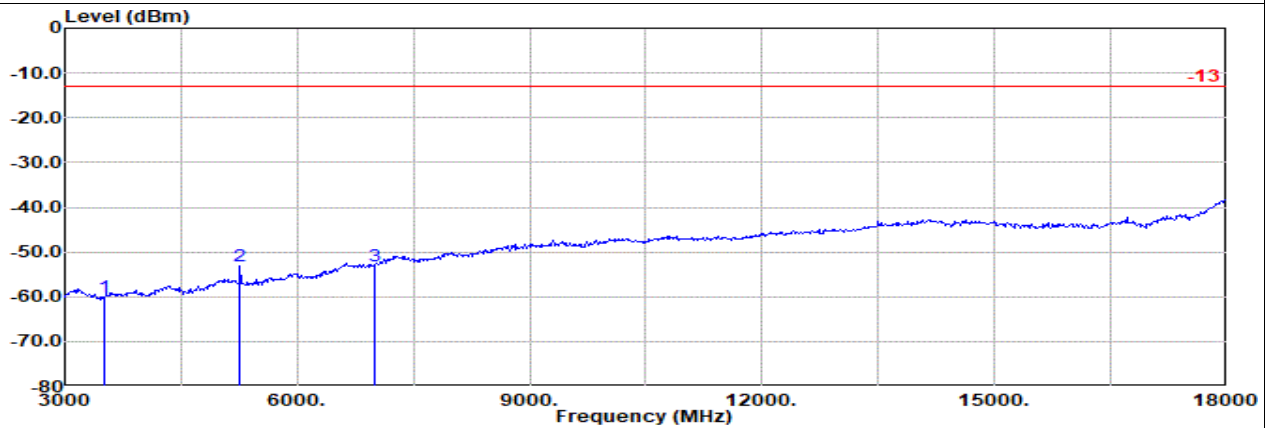


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

: WCDMA B4 Ch1513

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3505.00	-60.00	RMS	29.51	-29.56	1.00	-95.23	34.28	-13.00	-47.00	Horizontal			
2	5257.00	-50.78	RMS	32.99	-27.83	0.47	-95.23	38.82	-13.00	-37.78	Horizontal			
3	7010.00	-52.68	RMS	35.94	-26.50	0.15	-95.23	32.96	-13.00	-39.68	Horizontal			



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

: WCDMA B4 Ch1513

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3505.00	-60.12	RMS	29.51	-29.56	1.00	-95.23	34.16	-13.00	-47.12	Vertical			
2	5257.00	-53.14	RMS	32.99	-27.83	0.47	-95.23	36.46	-13.00	-40.14	Vertical			
3	7010.00	-52.98	RMS	35.94	-26.50	0.15	-95.23	32.66	-13.00	-39.98	Vertical			

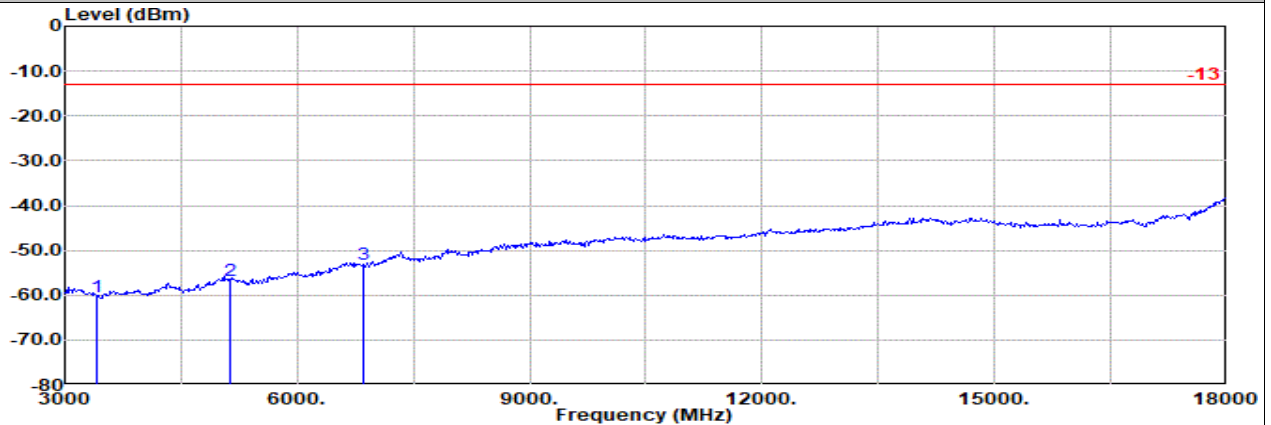


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Part 27L Mode 2

WCDMA B4 Ch1312

L

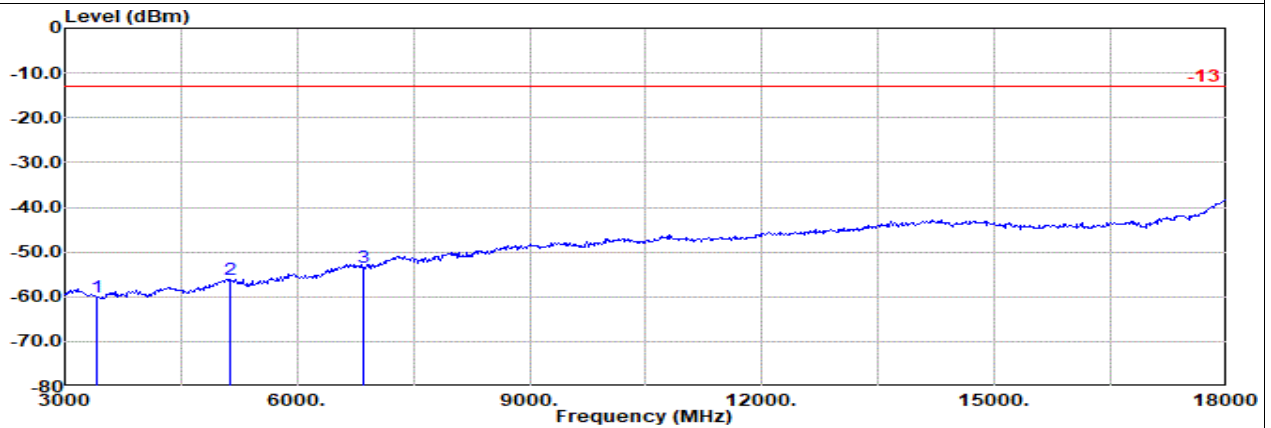


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

: WCDMA B4 Ch1312

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3424.00	-60.41	RMS	29.65	-29.63	1.05	-95.23	33.75	-13.00	-47.41	Horizontal			
2	5137.00	-56.61	RMS	33.15	-27.95	0.50	-95.23	32.92	-13.00	-43.61	Horizontal			
3	6849.00	-53.06	RMS	35.80	-26.56	0.31	-95.23	32.62	-13.00	-40.06	Horizontal			



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

: WCDMA B4 Ch1312

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3424.00	-60.13	RMS	29.65	-29.63	1.05	-95.23	34.03	-13.00	-47.13	Vertical			
2	5137.00	-56.02	RMS	33.15	-27.95	0.50	-95.23	33.51	-13.00	-43.02	Vertical			
3	6849.00	-53.32	RMS	35.80	-26.56	0.31	-95.23	32.36	-13.00	-40.32	Vertical			

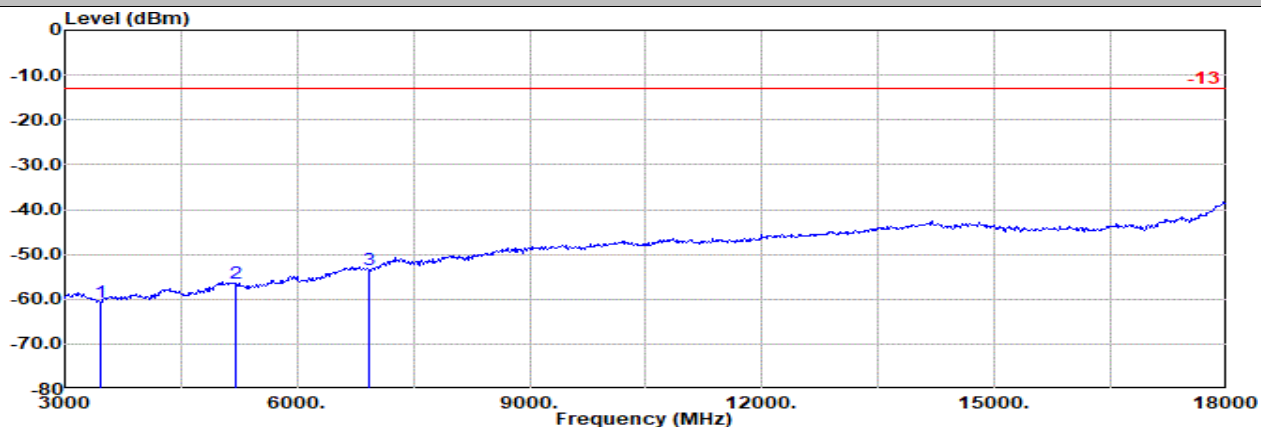


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Part 27L Mode 2

WCDMA B4 Ch1413

M

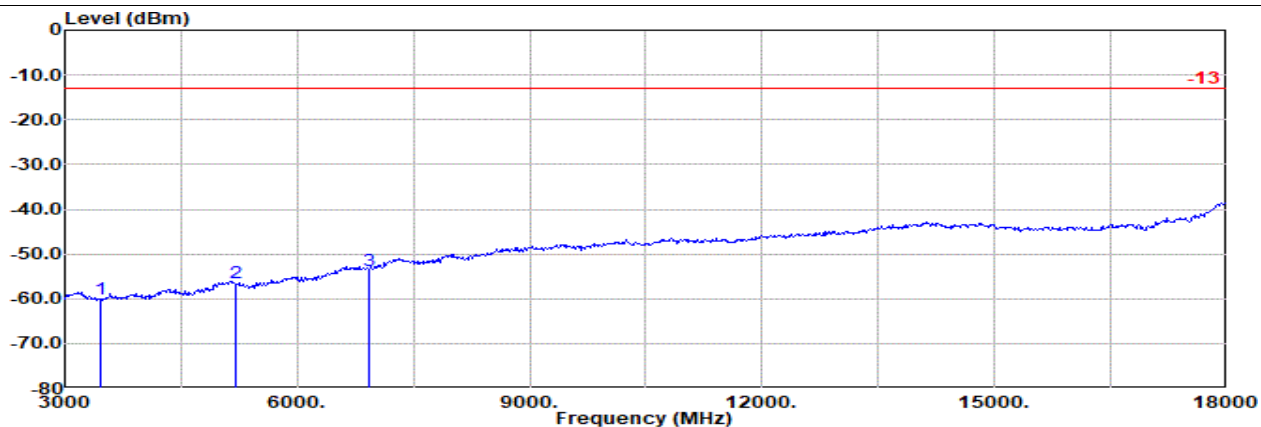


Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal

: WCDMA B4 Ch1413

	Freq		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		Factor	1			dBm	dB		
1	3465.00	-60.60	RMS	29.57	-29.59	1.02	-95.23	33.63	-13.00	-47.60	Horizontal
2	5197.00	-56.45	RMS	33.01	-27.89	0.51	-95.23	33.15	-13.00	-43.45	Horizontal
3	6930.00	-53.54	RMS	35.80	-26.53	0.22	-95.23	32.20	-13.00	-40.54	Horizontal



Site : 03CH15-HY

Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical

: WCDMA B4 Ch1413

	Freq		Detector	Ant Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		Factor	1			dBm	dB		
1	3465.00	-59.98	RMS	29.57	-29.59	1.02	-95.23	34.25	-13.00	-46.98	Vertical
2	5197.00	-56.56	RMS	33.01	-27.89	0.51	-95.23	33.04	-13.00	-43.56	Vertical
3	6930.00	-53.71	RMS	35.80	-26.53	0.22	-95.23	32.03	-13.00	-40.71	Vertical

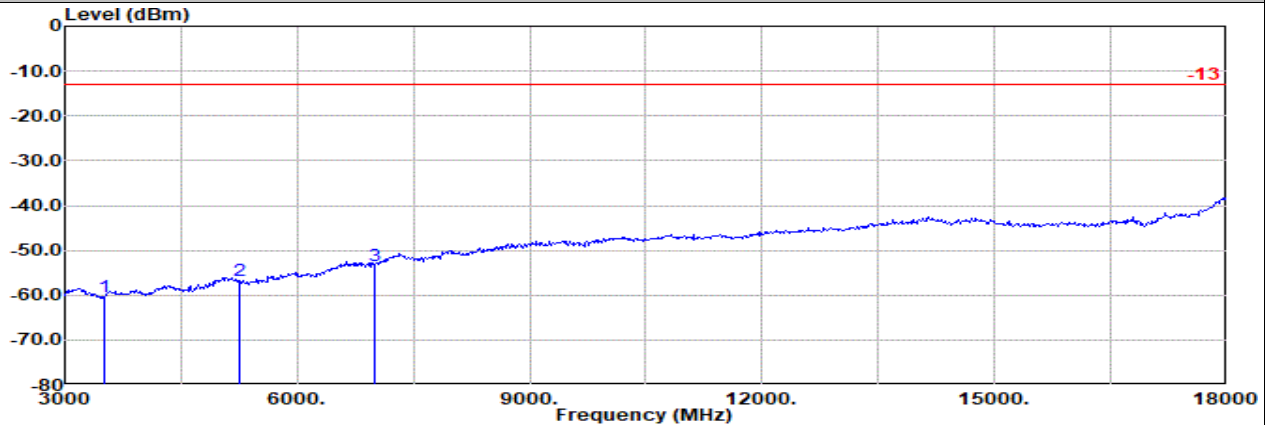


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Part 27L Mode 2

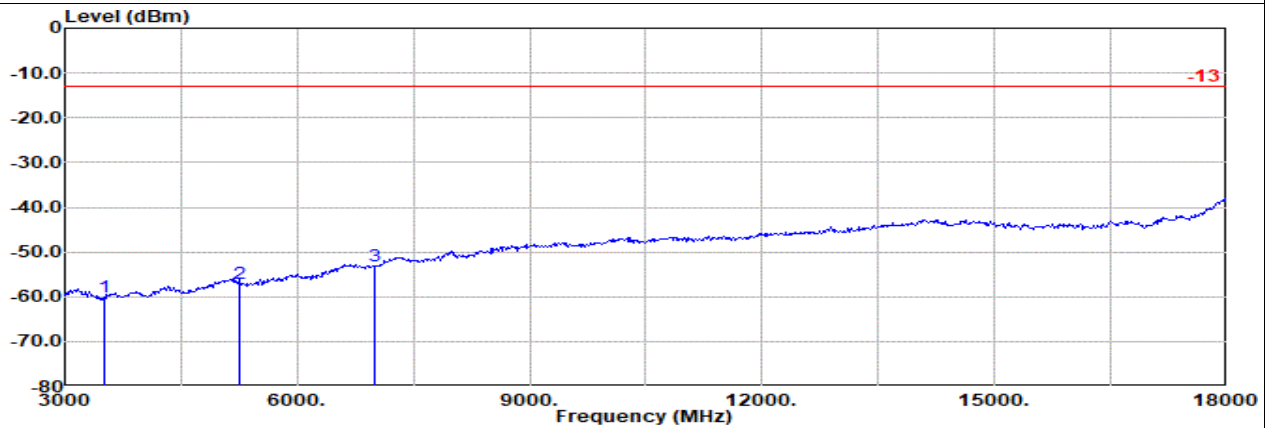
WCDMA B4 Ch1513

H



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Horizontal
: WCDMA B4 Ch1513

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	3505.00	-60.27	RMS	29.51	-29.56	1.00	-95.23	34.01	-13.00	-47.27 Horizontal
2	5257.00	-56.71	RMS	32.99	-27.83	0.47	-95.23	32.89	-13.00	-43.71 Horizontal
3	7010.00	-53.49	RMS	35.94	-26.50	0.15	-95.23	32.15	-13.00	-40.49 Horizontal



Site : 03CH15-HY
Condition: -13 3m BBHA 9120 D_9120D-02294 Vertical
: WCDMA B4 Ch1513

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin Pol	
				Factor	1					
	MHz	dBm								
1	3505.00	-60.20	RMS	29.51	-29.56	1.00	-95.23	34.08	-13.00	-47.20 Vertical
2	5257.00	-56.99	RMS	32.99	-27.83	0.47	-95.23	32.61	-13.00	-43.99 Vertical
3	7010.00	-53.25	RMS	35.94	-26.50	0.15	-95.23	32.39	-13.00	-40.25 Vertical

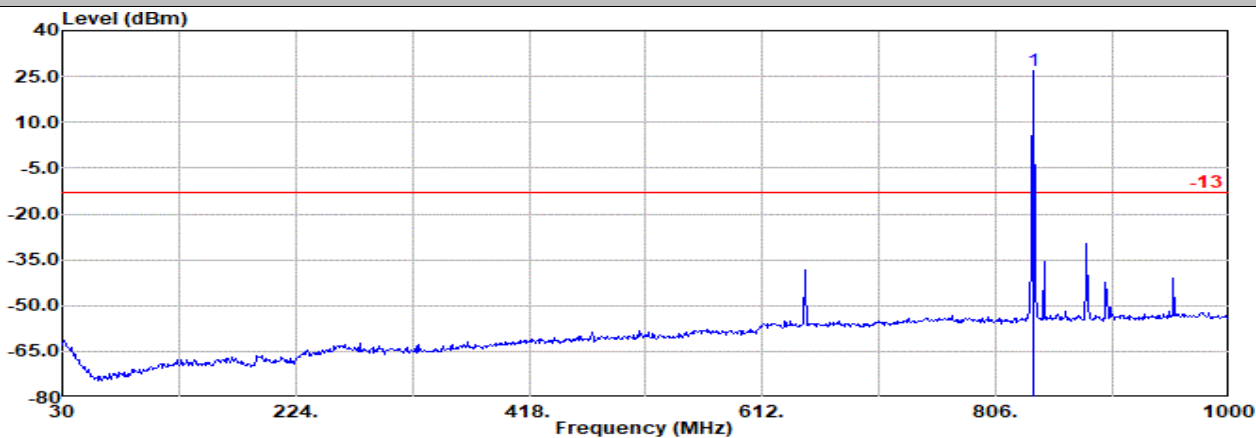


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Part 22H Mode 1

GSM 850 Ch189

M



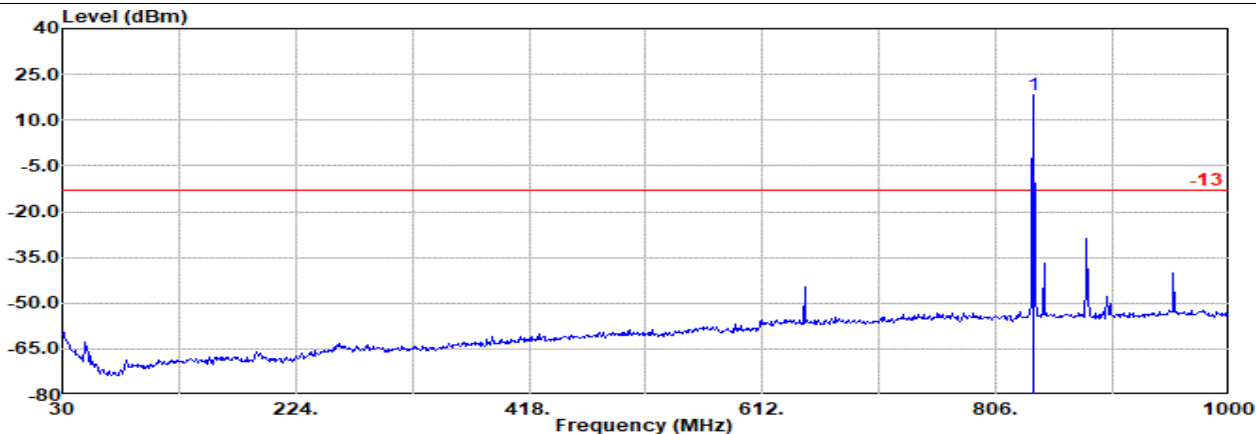
Site : 03CH15-HY

Condition: -13 3m CBL 6111D & 00800N1D01N-06_41912&05 Horizontal

Mode : GSM 850

: #1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			1			g			
1	837.04	26.99	RMS	28.20	3.32	0.00	-95.23	90.70	-13.00	39.99	Horizontal



Site : 03CH15-HY

Condition: -13 3m CBL 6111D & 00800N1D01N-06_41912&05 Vertical

Mode : GSM 850

: #1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm			1			g			
1	837.04	18.28	RMS	28.20	3.32	0.00	-95.23	81.99	-13.00	31.28	Vertical

—THE END—