



FCC RADIO TEST REPORT

FCC ID : 2AX2URW101RGL
Equipment : LTE Module
Brand Name : Rolling Wireless
Model Name : RW101R-GL
Applicant : Rolling Wireless S.a.r.l.
8-10, rue Mathias Hardt 1717, Luxembourg.
Manufacturer : Lenovo Ireland International Limited
Viscount House, 6/7 Fitzwilliam Square East,
Dublin, D02 Y447, Ireland
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

Equipment: Rolling Wireless RW101R-GL tested inside of Lenovo Notebook Computer.

The product was received on Aug. 04, 2025 and testing was performed from Aug. 05, 2025 to Sep. 03, 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 and has been in compliance with the applicable technical standards.

The test results in this partial 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



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History of this test report

Report No.	Version	Description	Issue Date
FG573117A	01	Initial issue of report	Nov. 19, 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 (WCDMA Band V)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (WCDMA Band II)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
-	§24.232 (d)	Peak-to-Average Ratio	Pass	See Note
-	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	See Note
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	See Note
4.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	-
Remark: 1. For host device, Field Strength of Spurious Radiation, Effective Radiated Power and Equivalent Isotropic Radiated Power are verified and complies with the limit in this test report. 2. For host device, the Conducted Output Power is no difference after compared to module (Model: RW101R-GL)				

**Conformity Assessment Condition:**

1. 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.
2. 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: Sheng Kuo

Report Producer: Hannah Yang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE Module
Brand Name	Rolling Wireless
Model Name	RW101R-GL
FCC ID	2AX2URW101RGL
Sample 1	EUT with Host 1
Sample 2	EUT with Host 2
Sample 3	EUT with Host 3
Sample 4	EUT with Host 4
EUT supports Radios application	WCDMA/HSPA/LTE
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer.
2. Equipment: Rolling Wireless RW101R-GL tested inside of Lenovo Notebook Computer.

The product was installed into Notebook Computer (Brand Name: Lenovo, Model Name: Lenovo Chrome 500e 2in1 G5 ITN, Lenovo Chrome 500e 2in1 G5 M89) during test.

Host Information for Host	
Host 1	11inch Host with ICT Antenna
Host 2	11inch Host with INPAQ Antenna
Host 3	12inch Host with ICT Antenna
Host 4	12inch Host with Speed Antenna

Remark: All the tests were performed with Lenovo Chrome 500e 2in1 G5 ITN.

WWAN Antenna Information				
Main Antenna (12")	Manufacturer	SPEED	Peak gain (dBi)	WCDMA Band II: 0.03 WCDMA Band IV: 1.5 WCDMA Band V: -0.83
	Part number	DC33002AD20	Type	PIFA
	Manufacturer	ICT	Peak gain (dBi)	WCDMA Band II: 0.03 WCDMA Band IV: 1.5 WCDMA Band V: -0.83
	Part number	DC33002AG30	Type	PIFA
Main Antenna (11")	Manufacturer	ICT	Peak gain (dBi)	WCDMA Band II: -1.7 WCDMA Band IV: 1.1 WCDMA Band V: -1.7
	Part number	DC33002AG20	Type	PIFA
	Manufacturer	INPAQ	Peak gain (dBi)	WCDMA Band II: -1.7 WCDMA Band IV: 1.1 WCDMA Band V: -1.7
	Part number	DC33002AF00	Type	PIFA

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

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx Frequency	WCDMA: Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz Band IV: 1712.4 MHz ~ 1752.6 MHz
Rx Frequency	WCDMA: Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz Band IV: 2112.4 MHz ~ 2152.6 MHz
Maximum Output Power to Antenna	WCDMA: Band V: 23.68 dBm Band II: 23.83 dBm Band IV: 23.74 dBm
Type of Modulation	WCDMA: BPSK (Uplink) HSDPA: 64QAM (Downlink) HSUPA: QPSK (Uplink)

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333
Test Site No.	Sporton Site No.
	TH03-HY
Test Engineer	Eric Wu
Temperature (°C)	22.1~22.9
Relative Humidity (%)	50.1~55.9

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010
Test Site No.	Sporton Site No.
	03CH23-HY (TAF Code: 3786)
Test Engineer	Leo Li, Karl Hou and Lucifer Jiang
Temperature (°C)	19~20.6
Relative Humidity (%)	52.1~56.5
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

1.5 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
- ♦ 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. 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:

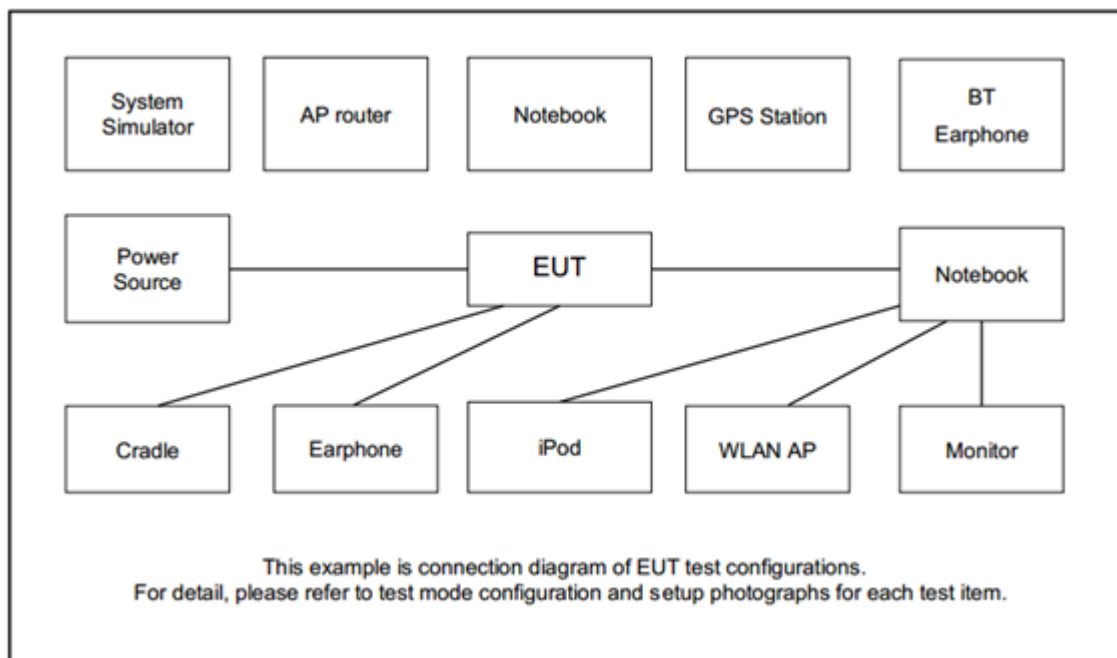
1. 30 MHz to 9000 MHz for WCDMA Band V
2. 30 MHz to 18000 MHz for WCDMA Band IV
3. 30 MHz to 19100 MHz for WCDMA Band II

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
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

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.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.4 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
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

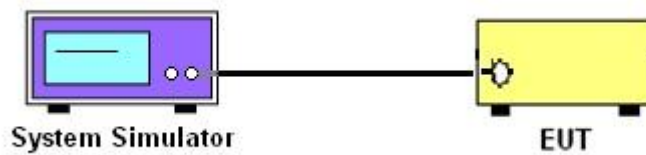
3 Conducted Test Result

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 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 WCDMA Band V

The EIRP of mobile transmitters must not exceed 2 Watts for 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.

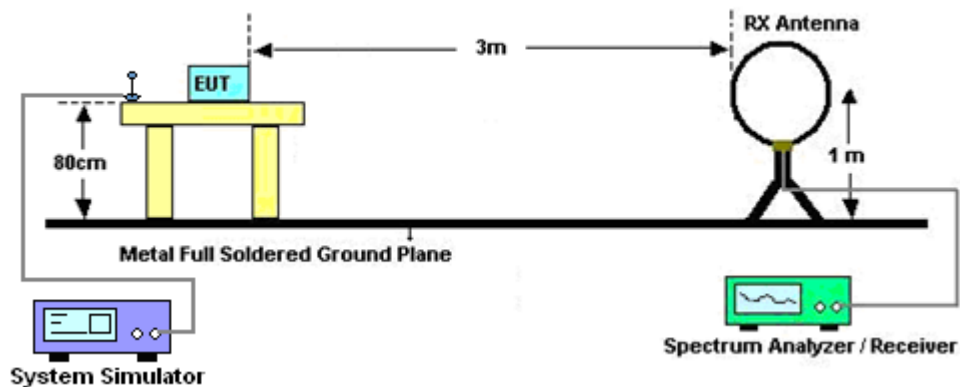
4 Radiated Test Items

4.1 Measuring Instruments

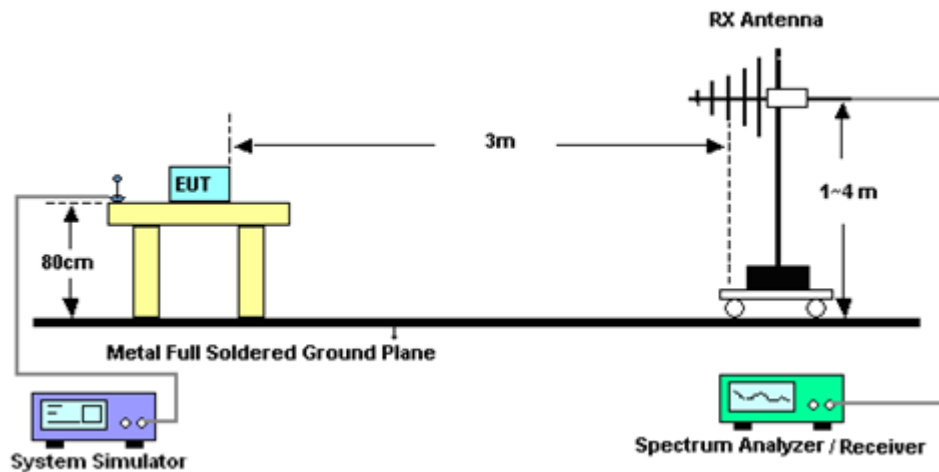
Please refer to the measuring equipment list in this test report.

4.2 Test Setup

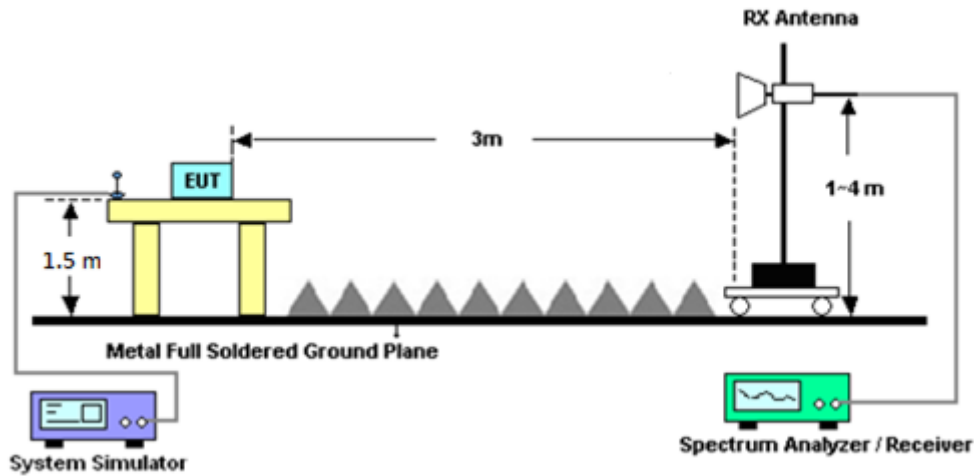
For radiated test below 30MHz



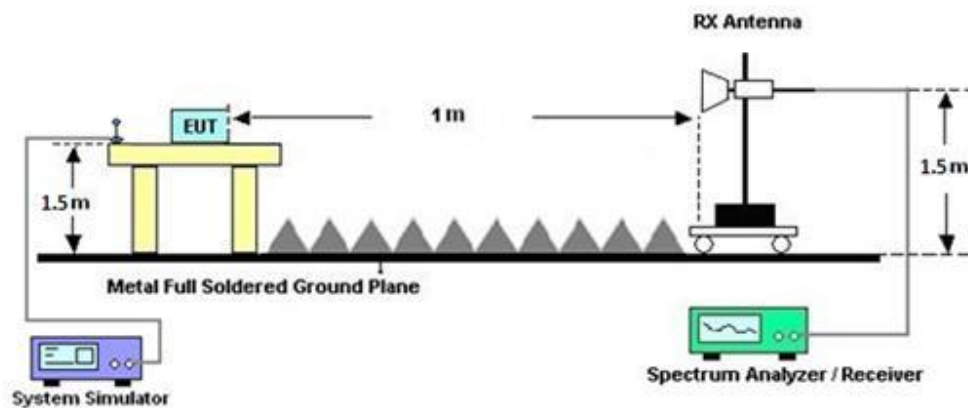
For radiated test from 30MHz to 1GHz



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-Z2E	101108	9 kHz~30 MHz	Dec. 18, 2024	Aug. 22, 2025~Sep. 03, 2025	Dec. 17, 2025	Radiation (03CH23-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	62028 & 003	30MHz~1GHz	Nov. 27, 2024	Aug. 22, 2025~Sep. 03, 2025	Nov. 26, 2025	Radiation (03CH23-HY)
Amplifier	SONOMA	310N	421582	9kHz~1GHz	Jul. 13, 2025	Aug. 22, 2025~Sep. 03, 2025	Jul. 12, 2026	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18GA	060878	N/A	Sep. 27, 2024	Aug. 22, 2025~Sep. 03, 2025	Sep. 26, 2025	Radiation (03CH23-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C05A18E N	1GHz~18GHz	Jul. 02, 2025	Aug. 22, 2025~Sep. 03, 2025	Jul. 01, 2026	Radiation (03CH23-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1225	18GHz~40GHz	Jul. 02, 2025	Aug. 22, 2025~Sep. 03, 2025	Jul. 01, 2026	Radiation (03CH23-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Aug. 29, 2025~Sep. 03, 2025	Aug. 25, 2026	Radiation (03CH23-HY)
Signal Analyzer	Keysight	N9010B	MY62170278	N/A	Sep. 24, 2024	Aug. 22, 2025~Sep. 03, 2025	Sep. 23, 2025	Radiation (03CH23-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	N/A	Nov. 22, 2024	Aug. 22, 2025~Sep. 03, 2025	Nov. 21, 2025	Radiation (03CH23-HY)
Hygrometer	TECEPEL	DTM-303A	TP211542	N/A	Oct. 21, 2024	Aug. 22, 2025~Sep. 03, 2025	Oct. 20, 2025	Radiation (03CH23-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 22, 2025~Sep. 03, 2025	N/A	Radiation (03CH23-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 22, 2025~Sep. 03, 2025	N/A	Radiation (03CH23-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 22, 2025~Sep. 03, 2025	N/A	Radiation (03CH23-HY)
Software	Audix	E3 6.09824_2019122	RK-002348	N/A	N/A	Aug. 22, 2025~Sep. 03, 2025	N/A	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804395/2	N/A	Nov. 26, 2024	Aug. 22, 2025~Sep. 03, 2025	Nov. 25, 2025	Radiation (03CH23-HY)
RF Cable	EMC	EMC101Y	231115/231119/231122	N/A	Nov. 26, 2024	Aug. 22, 2025~Sep. 03, 2025	Nov. 25, 2025	Radiation (03CH23-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~40GHz	Sep. 25, 2024	Aug. 05, 2025	Sep. 24, 2025	Conducted (TH03-HY)
DC Power Supply	GW Instek	GPE-2323	GEU871221	0V~64V ; 0A~6A	Apr. 14, 2025	Aug. 05, 2025	Apr. 13, 2026	Conducted (TH03-HY)
Base Station (Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Aug. 08, 2024	Aug. 05, 2025	Aug. 07, 2025	Conducted (TH03-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	SH-641	92013720	-40℃~90℃	Sep. 06, 2024	Aug. 05, 2025	Sep. 05, 2025	Conducted (TH03-HY)
Hygrometer	TECEPEL	DTM-303B	TP200886	N/A	Mar. 03, 2025	Aug. 05, 2025	Mar. 02, 2026	Conducted (TH03-HY)

6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.6 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7dB
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Appendix A. Test Results of Conducted Test

<Sample 1>

Conducted Output Power(Average power) & ERP / EIRP

WCDMA Band V Maximum Average Power [dBm] (GT - LC = -1.7 dB)					
Channel	4132	4182	4233	ERP (dBm)	ERP (W)
Frequency	826.4	836.4	846.6		
RMC 12.2K	23.60	23.58	23.68	19.83	0.0962
HSDPA Subtest-1	22.74	22.65	22.70		
HSDPA Subtest-2	22.67	22.59	22.67		
HSDPA Subtest-3	22.14	22.11	22.20		
HSDPA Subtest-4	22.10	22.08	22.16		
HSUPA Subtest-1	22.62	22.57	22.67		
HSUPA Subtest-2	20.70	20.60	20.67		
HSUPA Subtest-3	21.64	21.54	21.61		
HSUPA Subtest-4	20.63	20.62	20.72		
HSUPA Subtest-5	22.40	22.50	22.70		
Limit	ERP < 7W			Result	Pass

WCDMA Band II Maximum Average Power [dBm] (GT - LC = -1.7 dB)					
Channel	9262	9400	9538	EIRP (dBm)	EIRP (W)
Frequency	1852.4	1880	1907.6		
RMC 12.2K	23.53	23.53	23.83	22.13	0.1633
HSDPA Subtest-1	22.54	22.63	22.83		
HSDPA Subtest-2	22.49	22.61	22.84		
HSDPA Subtest-3	21.95	22.06	22.28		
HSDPA Subtest-4	22.05	22.07	22.32		
HSUPA Subtest-1	22.74	22.48	22.59		
HSUPA Subtest-2	20.67	20.52	20.61		
HSUPA Subtest-3	21.65	21.54	21.67		
HSUPA Subtest-4	20.70	20.58	20.61		
HSUPA Subtest-5	22.60	22.40	22.50		
Limit	EIRP < 2W			Result	Pass

WCDMA Band IV Maximum Average Power [dBm] (GT - LC = 1.1 dB)					
Channel	1312	1413	1513	EIRP (dBm)	EIRP (W)
Frequency	1712.4	1732.6	1752.6		
RMC 12.2K	23.42	23.74	23.68	24.84	0.3048
HSDPA Subtest-1	22.48	22.73	22.75		
HSDPA Subtest-2	22.17	22.67	22.68		
HSDPA Subtest-3	21.93	22.19	22.21		
HSDPA Subtest-4	21.92	22.17	22.15		
HSUPA Subtest-1	22.44	22.65	22.62		
HSUPA Subtest-2	20.29	20.70	20.55		
HSUPA Subtest-3	21.43	21.66	21.61		
HSUPA Subtest-4	20.48	20.74	20.65		
HSUPA Subtest-5	22.20	22.50	22.40		
Limit	EIRP < 1W			Result	Pass

<Sample 3>

Conducted Output Power(Average power) & ERP / EIRP

WCDMA Band V Maximum Average Power [dBm] (GT - LC = -0.83 dB)					
Channel	4132	4182	4233	ERP (dBm)	ERP (W)
Frequency	826.4	836.4	846.6		
RMC 12.2K	23.60	23.58	23.68	20.70	0.1175
HSDPA Subtest-1	22.74	22.65	22.70		
HSDPA Subtest-2	22.67	22.59	22.67		
HSDPA Subtest-3	22.14	22.11	22.20		
HSDPA Subtest-4	22.10	22.08	22.16		
HSUPA Subtest-1	22.62	22.57	22.67		
HSUPA Subtest-2	20.70	20.60	20.67		
HSUPA Subtest-3	21.64	21.54	21.61		
HSUPA Subtest-4	20.63	20.62	20.72		
HSUPA Subtest-5	22.40	22.50	22.70		
Limit	ERP < 7W			Result	Pass

WCDMA Band II Maximum Average Power [dBm] (GT - LC = 0.03 dB)					
Channel	9262	9400	9538	EIRP (dBm)	EIRP (W)
Frequency	1852.4	1880	1907.6		
RMC 12.2K	23.53	23.53	23.83	23.86	0.2432
HSDPA Subtest-1	22.54	22.63	22.83		
HSDPA Subtest-2	22.49	22.61	22.84		
HSDPA Subtest-3	21.95	22.06	22.28		
HSDPA Subtest-4	22.05	22.07	22.32		
HSUPA Subtest-1	22.74	22.48	22.59		
HSUPA Subtest-2	20.67	20.52	20.61		
HSUPA Subtest-3	21.65	21.54	21.67		
HSUPA Subtest-4	20.70	20.58	20.61		
HSUPA Subtest-5	22.60	22.40	22.50		
Limit	EIRP < 2W			Result	Pass

WCDMA Band IV Maximum Average Power [dBm] (GT - LC = 1.5 dB)					
Channel	1312	1413	1513	EIRP (dBm)	EIRP (W)
Frequency	1712.4	1732.6	1752.6		
RMC 12.2K	23.42	23.74	23.68	25.24	0.3342
HSDPA Subtest-1	22.48	22.73	22.75		
HSDPA Subtest-2	22.17	22.67	22.68		
HSDPA Subtest-3	21.93	22.19	22.21		
HSDPA Subtest-4	21.92	22.17	22.15		
HSUPA Subtest-1	22.44	22.65	22.62		
HSUPA Subtest-2	20.29	20.70	20.55		
HSUPA Subtest-3	21.43	21.66	21.61		
HSUPA Subtest-4	20.48	20.74	20.65		
HSUPA Subtest-5	22.20	22.50	22.40		
Limit	EIRP < 1W			Result	Pass



Appendix B. Test Results of Radiated Test

<Sample 1>

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
13	Part 22H	WCDMA B5	H	2540	-62.51	RMS	27.10	-24.63	1.39	-95.23	28.86	-13.00	-49.51	V	Main

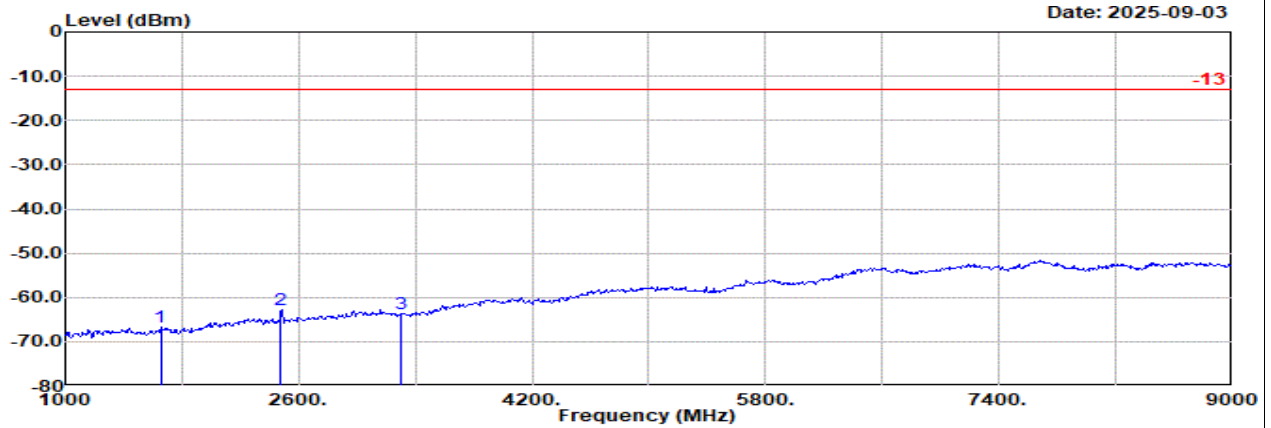


Ant. Main

Part 22H Mode 13

WCDMA B5 Ch4132

L

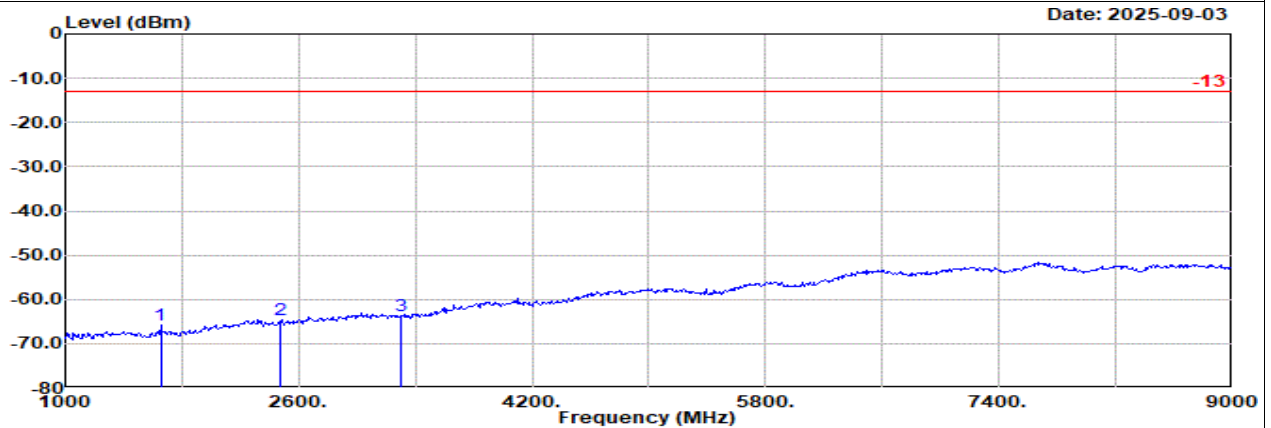


Site : 03CH23-HY

Condition: -13 3m DRH18-E_LE2C05A18EN_250702 Horizontal

: WCDMA 850 Ch4132

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dBuV	dBm	dB	
1	1653.00	-66.71	RMS		24.90	-25.28	1.29	-95.23	0.00	-13.00	-53.71 Horizontal
2	2479.00	-62.94	RMS		26.80	-24.69	1.35	-95.23	28.83	-13.00	-49.94 Horizontal
3	3306.00	-63.64	RMS		28.21	-23.97	1.46	-95.23	25.89	-13.00	-50.64 Horizontal



Site : 03CH23-HY

Condition: -13 3m DRH18-E_LE2C05A18EN_250702 Vertical

: WCDMA 850 Ch4132

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dBuV	dBm	dB	
1	1653.00	-65.89	RMS		24.90	-25.28	1.29	-95.23	28.43	-13.00	-52.89 Vertical
2	2479.00	-64.54	RMS		26.80	-24.69	1.35	-95.23	27.23	-13.00	-51.54 Vertical
3	3306.00	-63.58	RMS		28.21	-23.97	1.46	-95.23	25.95	-13.00	-50.58 Vertical

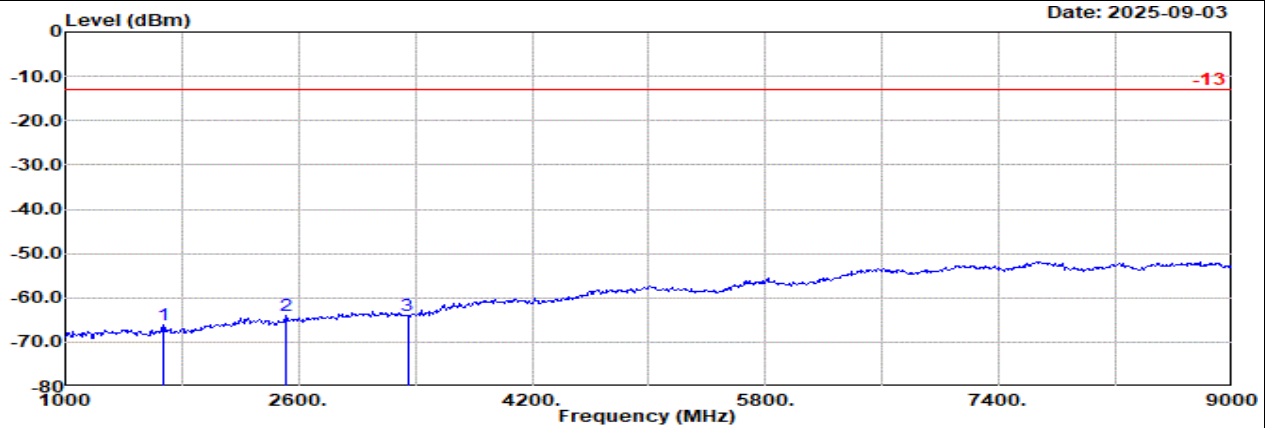


Ant. Main

Part 22H Mode 13

WCDMA B5 Ch4182

M

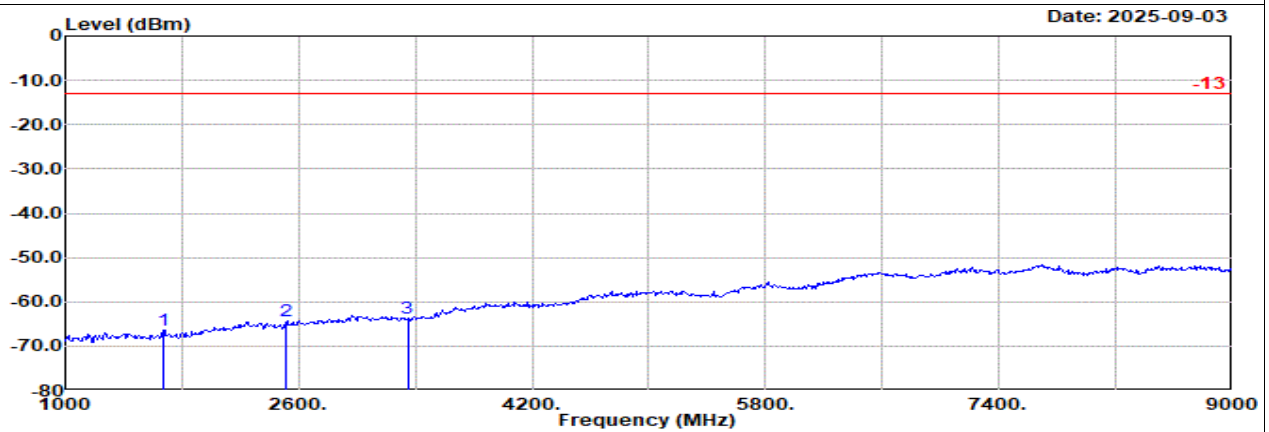


Site : 03CH23-HY

Condition: -13 3m DRH18-E_LE2C05A18EN_250702 Horizontal

: WCDMA 850 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	1673.00	-66.24	RMS	25.03	-25.27	1.29	-95.23	27.94	-13.00	-53.24
2	2509.00	-63.99	RMS	26.99	-24.67	1.37	-95.23	27.55	-13.00	-50.99
3	3346.00	-63.95	RMS	28.29	-23.99	1.44	-95.23	25.54	-13.00	-50.95



Site : 03CH23-HY

Condition: -13 3m DRH18-E_LE2C05A18EN_250702 Vertical

: WCDMA 850 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	1673.00	-66.27	RMS	25.03	-25.27	1.29	-95.23	27.91	-13.00	-53.27
2	2509.00	-64.43	RMS	26.99	-24.67	1.37	-95.23	27.11	-13.00	-51.43
3	3346.00	-63.67	RMS	28.29	-23.99	1.44	-95.23	25.82	-13.00	-50.67

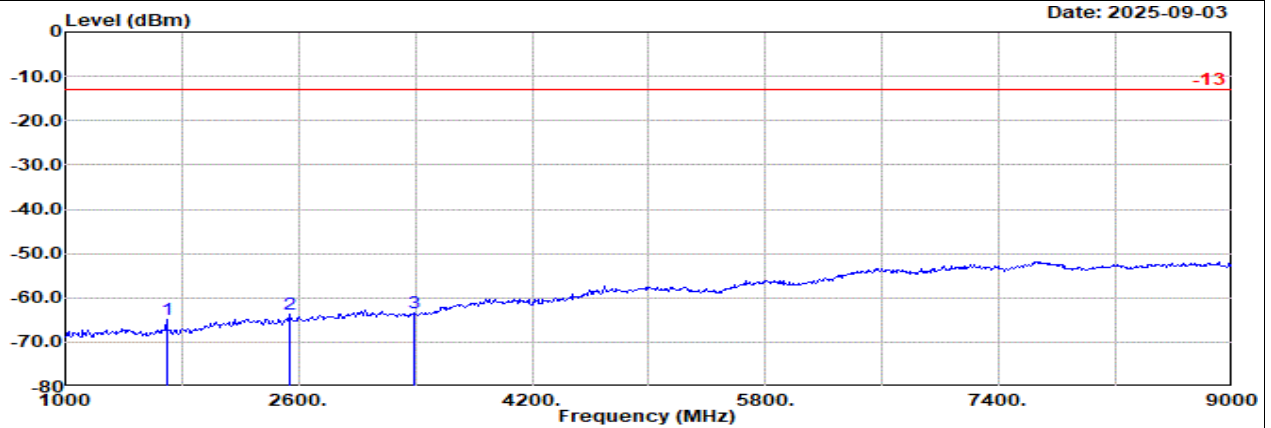


Ant. Main

Part 22H Mode 13

WCDMA B5 Ch4233

H

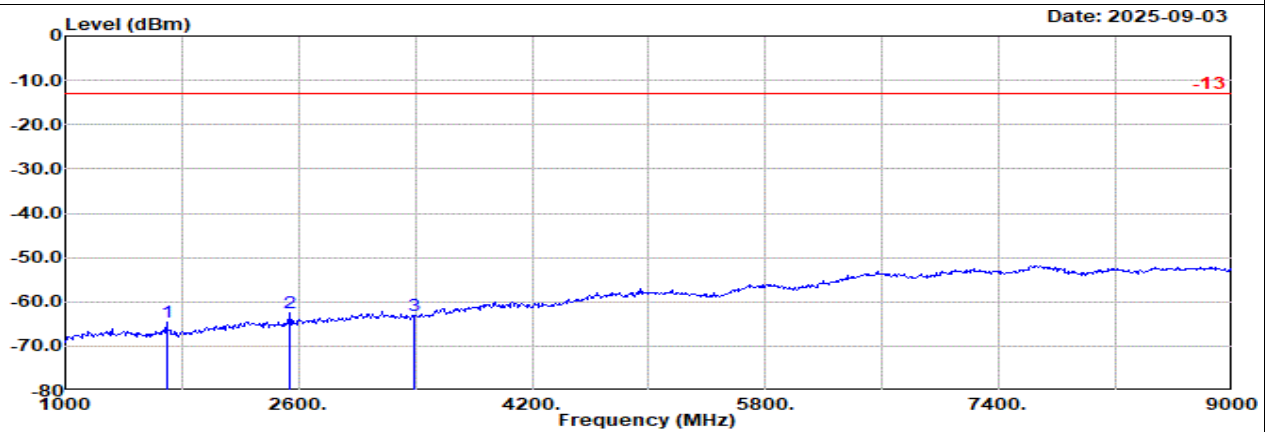


Site : 03CH23-HY

Condition: -13 3m DRH18-E_LE2C05A18EN_250702 Horizontal

: WCDMA 850 Ch4233

	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	1693.00	-64.97	RMS	25.04	-25.26	1.29	-95.23	29.19	-13.00	-51.97
2	2540.00	-63.73	RMS	27.10	-24.63	1.39	-95.23	27.64	-13.00	-50.73
3	3386.00	-63.46	RMS	28.44	-24.00	1.42	-95.23	25.91	-13.00	-50.46



Site : 03CH23-HY

Condition: -13 3m DRH18-E_LE2C05A18EN_250702 Vertical

: WCDMA 850 Ch4233

	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	1693.00	-64.74	RMS	25.04	-25.26	1.29	-95.23	29.42	-13.00	-51.74
2	2540.00	-62.51	RMS	27.10	-24.63	1.39	-95.23	28.86	-13.00	-49.51
3	3386.00	-63.09	RMS	28.44	-24.00	1.42	-95.23	26.28	-13.00	-50.09

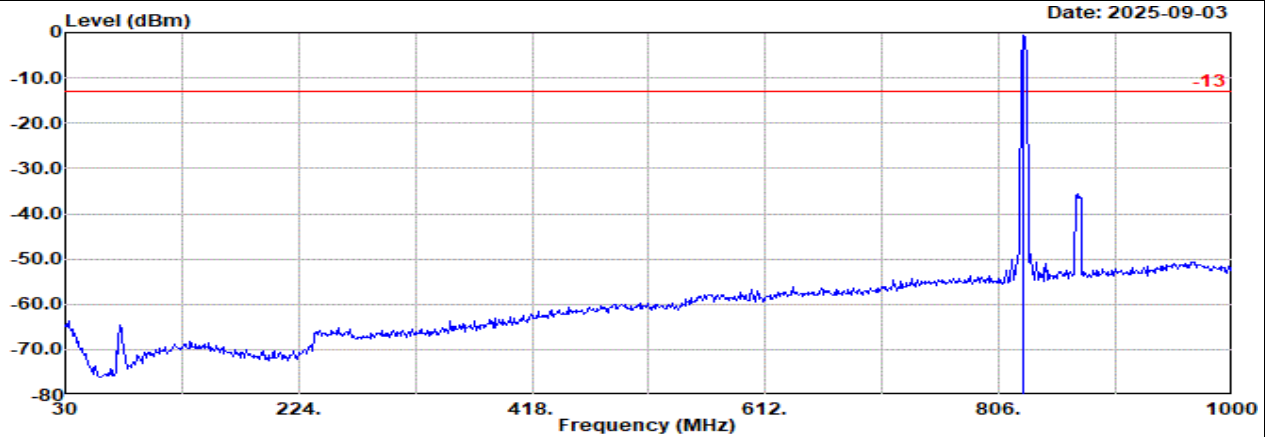


Ant. Main

Part 22H Mode 13

WCDMA B5 Ch4132

L



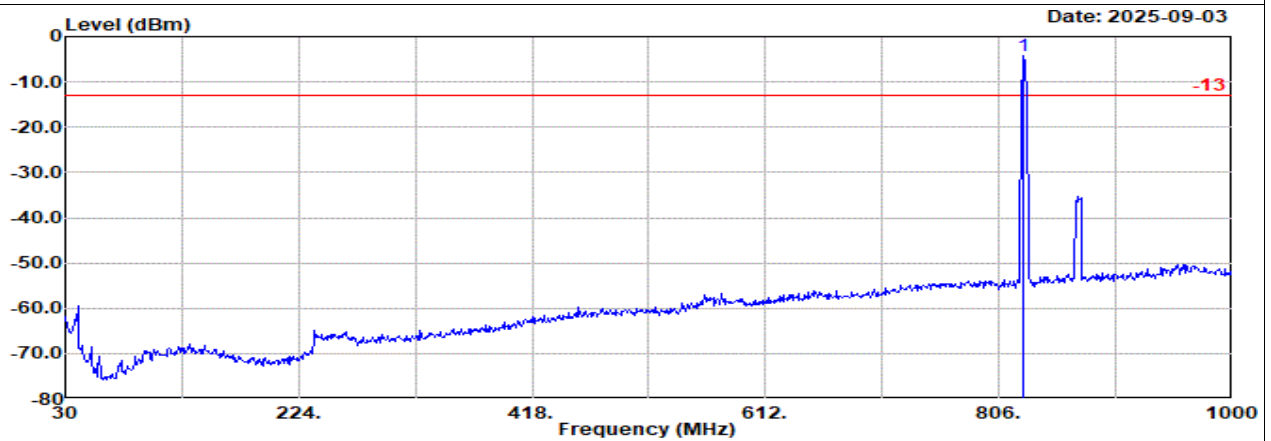
Site : 03CH23-HY

Condition: -13 3m CBL6111D_62028 & 003_241127 Horizontal

: WCDMA 850 Ch4132

: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm						dBuV	dBm	dB	
1	826.37	-0.63	RMS	28.13	4.18	0.00	-95.23	62.29	-13.00	12.37	Horizontal



Site : 03CH23-HY

Condition: -13 3m CBL6111D_62028 & 003_241127 Vertical

: WCDMA 850 Ch4132

: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm						dBuV	dBm	dB	
1	826.37	-4.35	RMS	28.13	4.18	0.00	-95.23	58.57	-13.00	8.65	Vertical

**<Sample 3>****B2. 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
14	Part 22H	WCDMA B5	M	2509	-50.82	RMS	26.99	-24.67	1.37	-95.23	40.72	-13.00	-37.82	H	Main

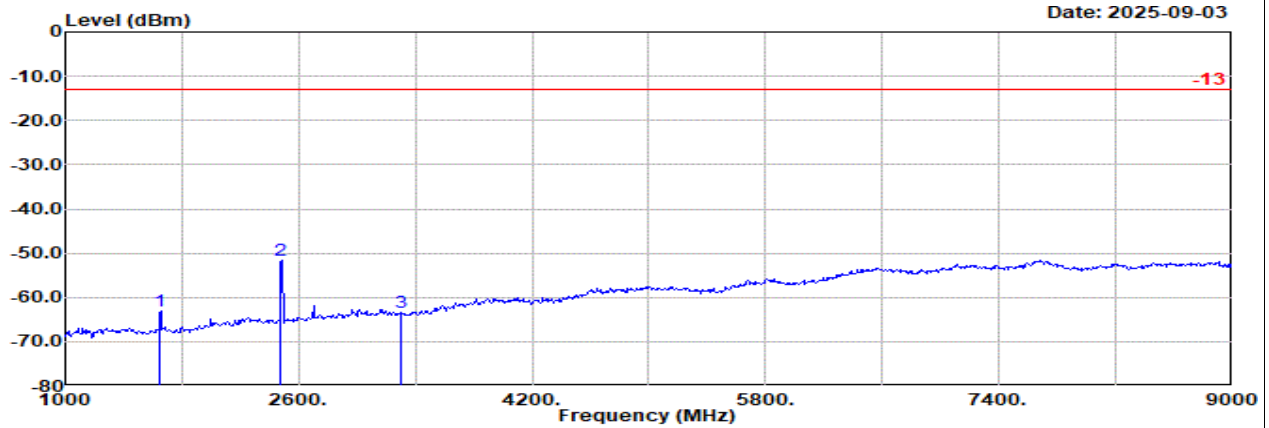


Ant. Main

Part 22H Mode 14

WCDMA B5 Ch4132

L

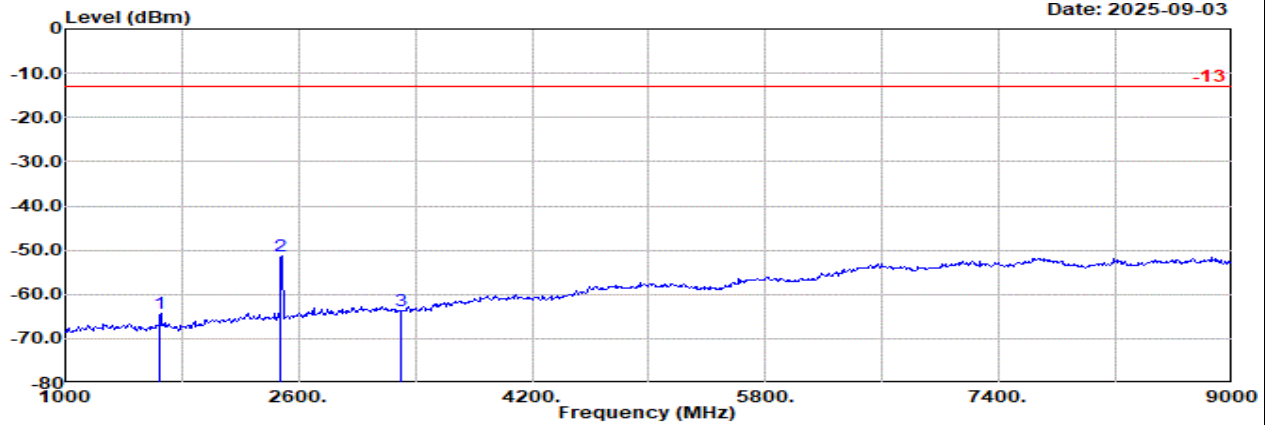


Site : 03CH23-HY

Condition: -13 3m DRH18-E_LE2C05A18EN_250702 Horizontal

: WCDMA 850 Ch4132

	Freq MHz	Level dBm	Detector	Ant Amp\Cb		Filter dB	EIRPCF dB	Readin dBuV	Limit dBm	Margin dB	Pol
				Factor	dB						
1	1652.00	-63.09	RMS	24.90	-25.28	1.29	-95.23	0.00	-13.00	-50.09	Horizontal
2	2479.00	-51.49	RMS	26.80	-24.69	1.35	-95.23	40.28	-13.00	-38.49	Horizontal
3	3305.00	-63.50	RMS	28.21	-23.97	1.46	-95.23	26.03	-13.00	-50.50	Horizontal



Site : 03CH23-HY

Condition: -13 3m DRH18-E_LE2C05A18EN_250702 Vertical

: WCDMA 850 Ch4132

	Freq MHz	Level dBm	Detector	Ant Amp\Cb		Filter dB	EIRPCF dB	Readin dBuV	Limit dBm	Margin dB	Pol
				Factor	dB						
1	1652.00	-64.40	RMS	24.90	-25.28	1.29	-95.23	29.92	-13.00	-51.40	Vertical
2	2479.00	-51.38	RMS	26.80	-24.69	1.35	-95.23	40.39	-13.00	-38.38	Vertical
3	3305.00	-63.66	RMS	28.21	-23.97	1.46	-95.23	25.87	-13.00	-50.66	Vertical

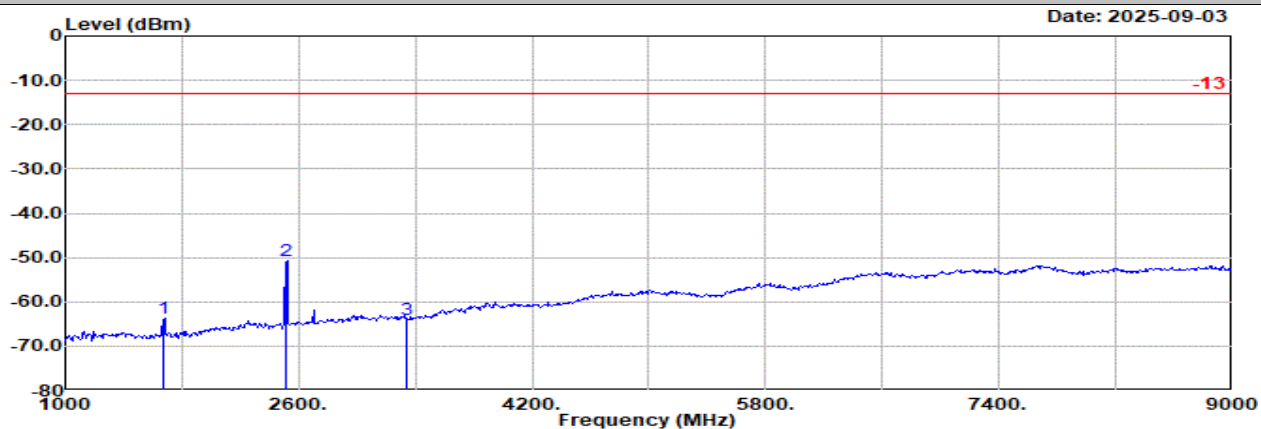


Ant. Main

Part 22H Mode 14

WCDMA B5 Ch4182

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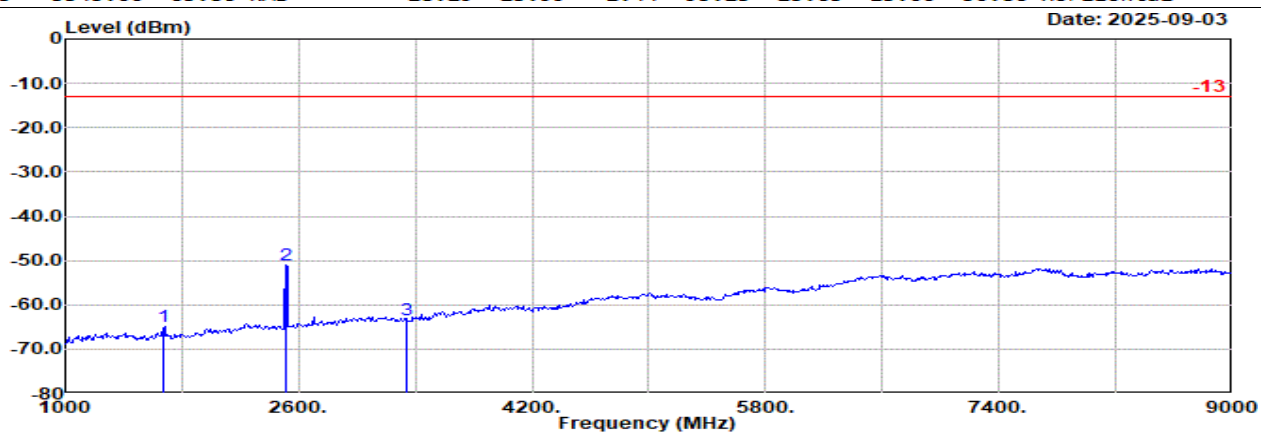


Site : 03CH23-HY

Condition: -13 3m DRH18-E_LE2C05A18EN_250702 Horizontal

: WCDMA 850 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	-63.80	RMS	25.02	-25.27	1.29	-95.23	30.39	-13.00	-50.80	Horizontal
2	2509.00	-50.82	RMS	26.99	-24.67	1.37	-95.23	40.72	-13.00	-37.82	Horizontal
3	3345.00	-63.86	RMS	28.29	-23.99	1.44	-95.23	25.63	-13.00	-50.86	Horizontal



Site : 03CH23-HY

Condition: -13 3m DRH18-E_LE2C05A18EN_250702 Vertical

: WCDMA 850 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	-64.92	RMS	25.02	-25.27	1.29	-95.23	29.27	-13.00	-51.92	Vertical
2	2509.00	-50.97	RMS	26.99	-24.67	1.37	-95.23	40.57	-13.00	-37.97	Vertical
3	3345.00	-63.35	RMS	28.29	-23.99	1.44	-95.23	26.14	-13.00	-50.35	Vertical

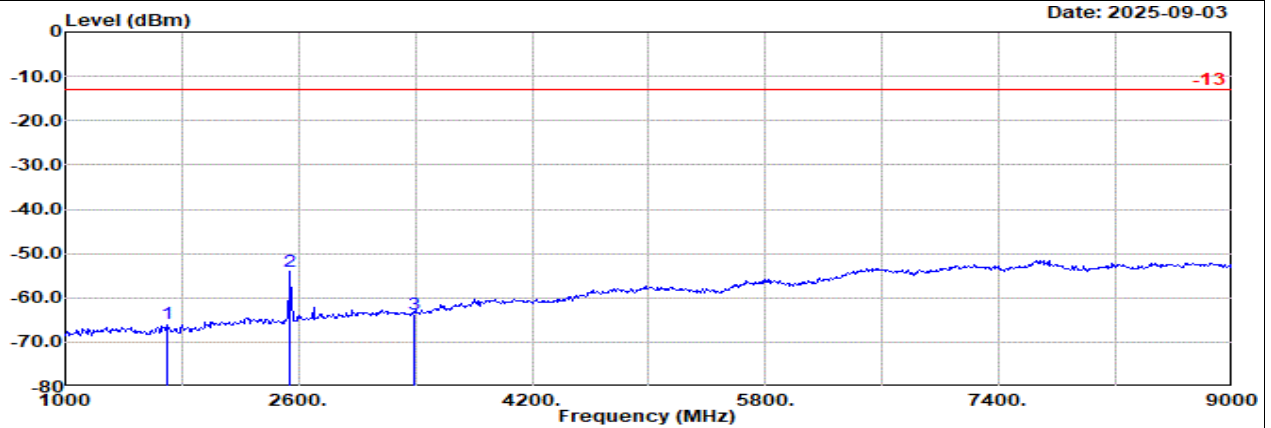


Ant. Main

Part 22H Mode 14

WCDMA B5 Ch4233

H

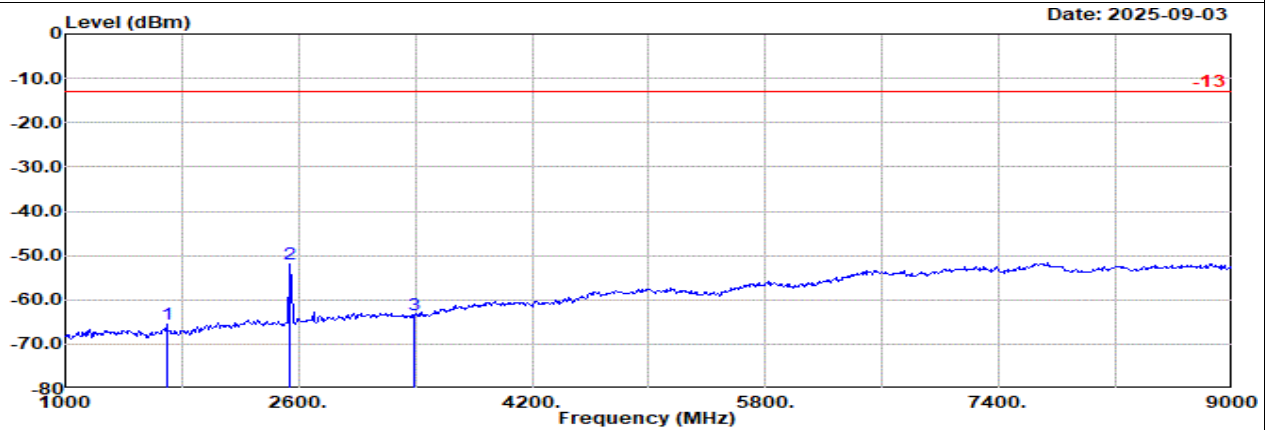


Site : 03CH23-HY

Condition: -13 3m DRH18-E_LE2C05A18EN_250702 Horizontal

: WCDMA 850 Ch4233

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin		Pol
				Factor	1						
	MHz	dBm									
1	1693.00	-65.96	RMS	25.04	-25.26	1.29	-95.23	28.20	-13.00	-52.96	Horizontal
2	2539.00	-54.09	RMS	27.10	-24.63	1.39	-95.23	37.28	-13.00	-41.09	Horizontal
3	3386.00	-63.55	RMS	28.44	-24.00	1.42	-95.23	25.82	-13.00	-50.55	Horizontal



Site : 03CH23-HY

Condition: -13 3m DRH18-E_LE2C05A18EN_250702 Vertical

: WCDMA 850 Ch4233

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin		Pol
				Factor	1						
	MHz	dBm									
1	1693.00	-65.59	RMS	25.04	-25.26	1.29	-95.23	28.57	-13.00	-52.59	Vertical
2	2539.00	-51.98	RMS	27.10	-24.63	1.39	-95.23	39.39	-13.00	-38.98	Vertical
3	3386.00	-63.45	RMS	28.44	-24.00	1.42	-95.23	25.92	-13.00	-50.45	Vertical

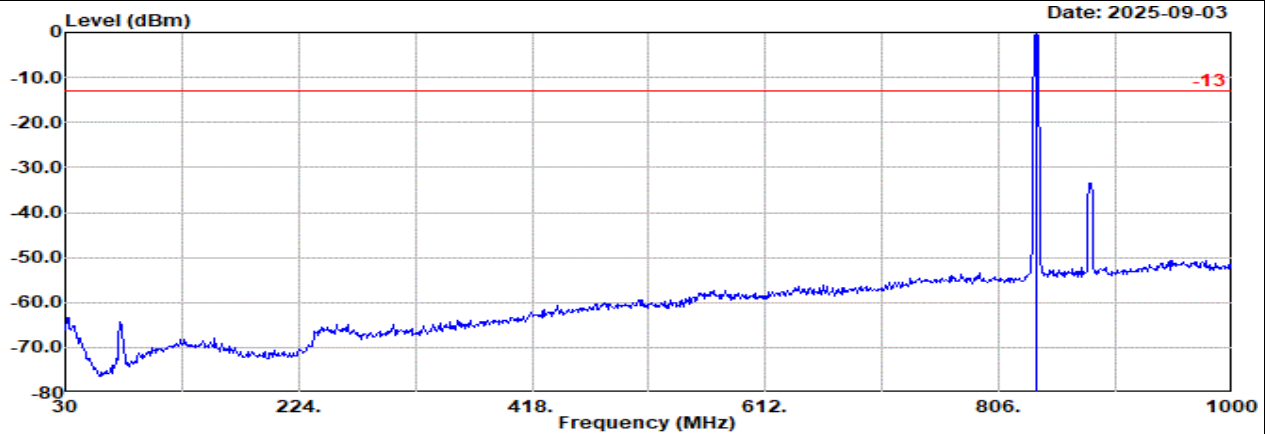


Ant. Main

Part 22H Mode 14

WCDMA B5 Ch4182

M



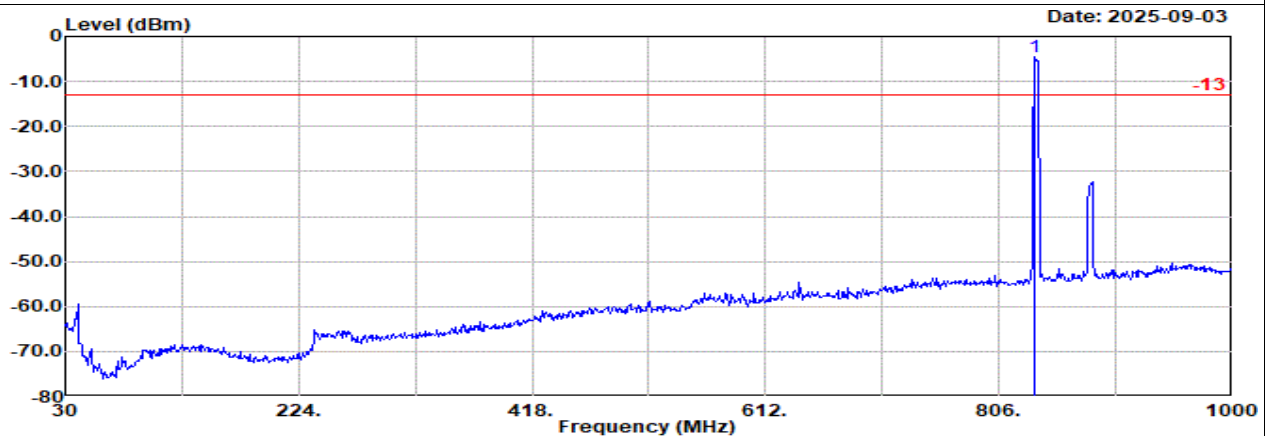
Site : 03CH23-HY

Condition: -13 3m CBL6111D_62028 & 003_241127 Horizontal

: WCDMA 850 Ch4182

: #1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm		Factor	1		g	dBm		
1	837.04	-0.27	Average	28.55	4.15	0.00	-95.23	62.26	-13.00	12.73 Horizontal



Site : 03CH23-HY

Condition: -13 3m CBL6111D_62028 & 003_241127 Vertical

: WCDMA 850 Ch4182

: #1 is fundamental signal which can be ignored.

1	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm		Factor	1		g	dBm		
1	836.07	-4.55	Average	28.50	4.16	0.00	-95.23	58.02	-13.00	8.45 Vertical