



No.:
REDSZ2025-0111-RF

TEST REPORT

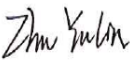
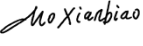
NAME OF SAMPLE : NeoEyes NE-CM01 Cat-1 Module

APPLICANT : Xiamen CamThink Technology Co., Ltd.

CLASSIFICATION OF TEST : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.



Applicant	Name: Xiamen CamThink Technology Co., Ltd. Address: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China		
Manufacturer	Name: Xiamen CamThink Technology Co., Ltd. Address: Building C09, Software Park Phase III, Xiamen 361024, Fujian, China		
Equipment Under Test	Product Name: NeoEyes NE-CM01 Cat-1 Module Model Name: NE-CM01 Additional Model Name: NT-CM01 Brand Name: CamThink Serial NO.: N/A Sample NO.: 202507115892-9		
Date of Receipt.	Jul. 14, 2025	Date of Testing	Jul. 14, 2025 ~ Aug. 06, 2025
Test Specification		Test Result	
EN 301 511 V12.5.1 (2017-03) ETSI EN 301 908-1 V15.2.1 (2023-01) ETSI EN 301 908-13 V13.3.1 (2024-10)		PASS	
Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. Seal of CVC Issue Date: Aug.06,2025		
Compiled by:  Zhu Yulin Name Signature	Reviewed by:  Mo Xianbiao Name Signature	Approved by:  Dong Sanbi Name Signature	
Other Aspects: NONE.			
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
REDSZ2025-0111-RF	Original release	Aug. 06, 2025



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

ETSI TS 151 010-1	ETSI EN 301511	Test Description	VERDICT
12.1.1	4.2.12	Conducted spurious emissions - MS allocated a channel	PASS
12.1.2	4.2.13	Conducted spurious emissions - MS in idle mode	PASS
12.2.1	4.2.16	Radiated spurious emissions - MS allocated a channel	PASS
12.2.2	4.2.17	Radiated spurious emissions - MS in idle mode	PASS
13.1	4.2.1	Frequency error and phase error	PASS
13.2	4.2.2	Frequency error under multipath and interference conditions	PASS
13.3	4.2.5	Transmitter output power and burst timing	PASS
13.4	4.2.6	Output RF spectrum	PASS
13.16.1	4.2.4	Frequency error and phase error in GPRS multislot configuration	PASS
13.16.2	4.2.10	Transmitter output power in GPRS multislot configuration	PASS
13.16.3	4.2.11	Output RF spectrum in GPRS multislot configuration	PASS
13.17.1	4.2.26	Frequency error and Modulation accuracy in EGPRS Configuration	PASS
13.17.2	4.2.27	Frequency error under multipath and interference conditions	PASS
13.17.3	4.2.28	EGPRS Transmitter output power	PASS
13.17.4	4.2.29	Output RF spectrum in EGPRS configuration	PASS
14.2.1	4.2.42	Reference sensitivity - TCH/FS	PASS
14.5.1	4.2.38	Adjacent channel rejection – speech Channels (TCH/FS)	PASS
14.6.1	4.2.32	Intermodulation rejection - speech channels	PASS
14.7.1	4.2.20	Blocking and spurious response - speech channels	PASS
14.8.1	4.2.35	AM suppression - speech channels	PASS
14.16.1	4.2.44	Minimum Input level for Reference Performance - GPRS	PASS
14.18.1	4.2.45	Minimum Input level for Reference Performance - EGPRS	PASS
14.18.3	4.2.40	Adjacent channel rejection - EGPRS	PASS
14.18.4	4.2.34	Intermodulation rejection - EGPRS	PASS
14.18.5	4.2.30	Blocking and spurious response in EGPRS configuration	PASS

Note:

1. The device is built with LTE Module (Model No.: EG912U-GL). and the module has been certified. Only radiated spurious emission measurement was test in the report, other test items and test data will refer to the module's report.(Report No.: EG2D1203)

2. The EUT is paired with NeoEyes NE101 Sensing Camera testing, therefore, reference the data from report: REDSZ2025-0066-RF2.



ETSI TS 136521-1	ETSI EN 301908-1	ETSI EN 301908-13	Test Description	VERDICT
6.2.2	--	4.2.2	Transmitter maximum output power	PASS
6.6.2.1	--	4.2.3	Transmitter Spectrum Emission Mask	PASS
6.6.3.1	--	4.2.4	Transmitter Spurious Emissions- Conducted	PASS
6.3.2	--	4.2.5	Transmitter Minimum Output Power	PASS
7.5	--	4.2.6	Receiver Adjacent Channel Selectivity (ACS)	PASS
7.6.1	--	4.2.7	Receiver Blocking Characteristics	PASS
7.7	--	4.2.8	Receiver Spurious Response	PASS
7.8.1	--	4.2.9	Receiver Intermodulation Characteristics	PASS
7.9	--	4.2.10	Receiver Spurious Emissions	PASS
6.6.2.3	--	4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	PASS
7.3	--	4.2.12	Receiver Reference Sensitivity Level	PASS
--	--	4.2.13	Receiver Total Radiated Sensitivity(TRS)	N/A(Note)
--	--	4.2.14	Total Radiated Power (TRP)	N/A(Note)
--	4.2.2	--	Transmitter spurious emissions- Radiated	PASS
--	4.2.4	--	Control and monitoring functions (UE)	PASS

Note:

1. The present requirement applies to handheld phones/DUTs that are narrower than 72 mm
2. The device is built with LTE Module (Model No.: EG912U-GL). and the module has been certified. Only radiated spurious emission measurement was test in the report, other test items and test data will refer to the module's report.(Report No.: EM2D1203B)
3. The EUT is paired with NeoEyes NE101 Sensing Camera testing, therefore, reference the data from report: REDSZ2025-0066-RF2.

**1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS**

Antenna Port Conducted Test (WWAN)					
Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
Spectrum Analyzer	R&S	FSVA 3044	CS030003	1 year	2026/05/21
Spectrum Analyzer	Prosund	SP926B	SP912322051	1 year	2025/08/26
Comprehensive Test Instrument	R&S	CMW 500	CS0300012	1 year	2026/05/22
Analog signal Generator	R&S	SMB 100A	CS0300016	1 year	2026/04/22
Vector signal Generator	R&S	SMBV 100B	CS0300018	1 year	2026/04/22
DC power supply	R&S	HMC8041-G	CS0300025	1 year	2026/04/22
RF control unit(2/3/4/5G)	Tonscend	JS0806-1	CS0300027	1 year	2026/04/22
Automatic filter bank(2/3/4G/5G)	Tonscend	JS0806-F	CS0300028	1 year	2026/04/22
10db attenuator	JUNKE	SMA-10-18-N	250312743	1 year	2026/06/05
Comprehensive Test Instrument	R&S	CMW 500	CS0300033	1 year	2026/05/22
#4Shielding room	MORI	443	CS0300010	3 year	2026/05/16
Constant temperature humidity chamber	TEELONG	TL-HW-225B	20220518-01	1 year	2026/06/05
4G Comprehensive Test Instrument	Anritsu	MT8821C	CS0300034	1 year	2026/01/07
5G Comprehensive Test Instrument	Anritsu	MT8000A	CS0300035	1 year	2026/01/07
Power splitter	Anritsu	K240CPOWERDIVER	012334	1 year	2026/06/05
Radiated Spurious Emission Test - 3M Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
Spectrum Analyzer	R&S	FSV 40	CS0300001	1 year	2026/04/22
Spectrum Analyzer	R&S	FSVA 3044	CS0300004	1 year	2026/05/21
EMI Test Receiver	R&S	ESR3	CS0300005	1 year	2026/05/21
Horn antenna(1GHz-18GHz)	ETS-Lindgren	3117	CS0300007	1 year	2026/03/28
Horn antenna(18GHz-40GHz)	STEATITE	QMS-00880	CS0300008	1 year	2026/03/21
Automatic control unit(RSE)	R&S	OSP220	CS0300019	1 year	2025/07/02
Filter group(RSE-BT/WiFi)	R&S	WiFi/BT Variant 1	CS0300020	1 year	2026/04/22
Filter group(RSE-Cellular)	R&S	Cellular Variant 1	CS0300021	1 year	2026/04/22
Preamplifier(1GHz-18GHz)	R&S	SCU18F	CS0300031-1	1 year	2026/04/22
Preamplifier(1GHz-18GHz)	R&S	SCU-18F	CS0300031	1 year	2026/04/22
Comprehensive Test Instrument	R&S	CMW 500	CS0300033	1 year	2026/05/22
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB9168	CS0200006	1 year	2026/01/22
Preamplifier(1GHz-18GHz)	R&S	SCU-01F	CS0200042	1 year	2026/04/22
Preamplifier(18GHz-40GHz)	R&S	SCU40A	CS0200045	1 year	2026/04/22
Attenuator	boyang	BY--N-2W-5dB	/	1 year	2026/01/22
Temperature and humidity meter	yuhuaize	/	WK0001	1 year	2026/04/28
#2 control room	MORI	433	CS0300028	3 year	2026/05/16
3m anechoic chamber	MORI	966	CS0300011	3 year	2026/05/16



1.2 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab. of CVC Testing Technology (Shenzhen) Co., Ltd.

Lab Address: No. 1301-14, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China

Post Code: 518110 Tel: 0755-23763060-8805

Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn

FCC(Test firm designation number: CN1363)

IC(Test firm CAB identifier number: CN0137)

CNAS(Test firm designation number: L16091)



1.3 MEASUREMENT UNCERTAINTY

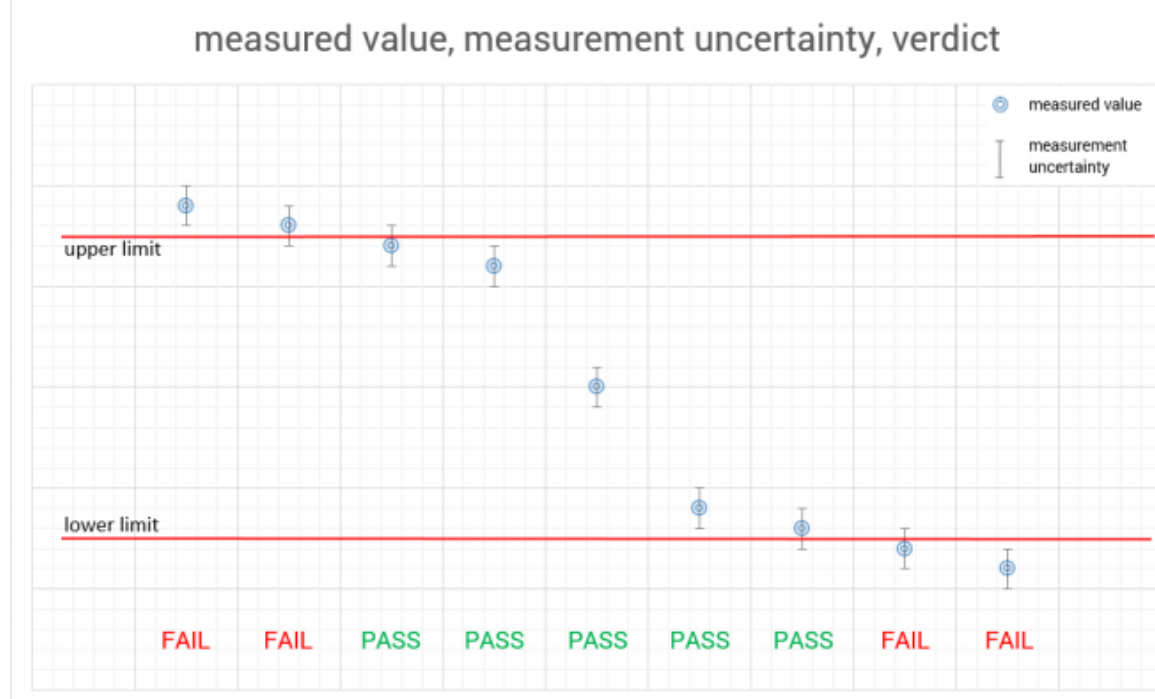
Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement uncertainty	
Radiated Emissions (UE)	$\pm 2.1618\text{dB}$
Control and Monitoring Functions (UE)	$\pm 2.5992\text{dB}$
Transmitter maximum output power	$\pm 0.651\text{dB}$
Transmitter spectrum emissions mask	$\pm 1.198\text{dB}$
Transmitter spurious emissions	$\pm 1.427\text{dB}$
Transmitter Minimum output power	$\pm 0.651\text{dB}$
Receiver Adjacent Channel Selectivity(ACS)	$\pm 0.964\text{dB}$
Receiver Blocking characteristics	$\pm 0.967\text{dB}$
Receiver intermodulation characteristics	$\pm 1.075\text{dB}$
Receiver spurious emissions	$\pm 1.427\text{dB}$
Transmitter adjacent channel leakage power ratio	$\pm 1.960\text{dB}$
Receiver Reference Sensitivity Level	$\pm 0.967\text{dB}$

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

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed.

The measurement uncertainty is mentioned in this test report, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.





2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT NAME	NeoEyes NE-CM01 Cat-1 Module	
BRAND NAME	CamThink	
MODEL NAME	NE-CM01	
ADDITIONAL MODEL NAME (Remark 5)	NT-CM01	
POWER SUPPLY	DC 5V	
ANTENNA TYPE	☐ External ☒ Internal	
MODULATION TYPE	GSM	GMSK/8PSK
	LTE	QPSK/16QAM
GSM	GSM 900/1800	
LTE	B1/3/5/7/8/20/28/34/38/40/41	
OPERATING FREQUENCY	See section 2.3	
MAX CONDUTED POWER	See section 2.3	
ANTENNA GAIN (Remark 4)	PCB Antenna, See section 2.3	
I/O PORTS	Refer to User's Manual	
CABLE SUPPLIED	N/A	

Remark:

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. EUT photo refer to the report (Report NO.: REDSZ2025-0111-EUT).
4. Since the above data and/or information is provided, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
5. This sample only differs in model name.

2.2 DESCRIPTION OF ACCESSORIES

N/A



2.3 OPERATING FREQUENCY AND MAX CONDUTED POWER

Mode	Band	TX(MHz)	RX(MHz)	Max Conducted Power(dBm)	Max Average Power(dBm)	Gain(dBi)
GSM	GSM 900 (1 Tx slot)	880 ~ 915	925 ~ 960	35.00	26.00	-7.62
	GSM 1800 (1 Tx slot)	1710 ~ 1785	1805 ~ 1880	32.00	23.00	-1.27

Mode	Band	TX(MHz)	RX(MHz)	Max Average Power(dBm)	Antenna Gain(dBi)
LTE	LTE B1	1920 ~ 1980	2110 ~ 2170	25.00	2.09
	LTE B3	1710 ~ 1785	1805 ~ 1880	25.00	-1.27
	LTE B5	824 ~ 849	869 ~ 894	25.00	-6.02
	LTE B7	2500 ~ 2570	2620 ~ 2690	25.00	2.6
	LTE B8	880 ~ 915	925 ~ 960	25.00	-7.62
	LTE B20	832 ~ 862	791 ~ 821	25.00	-6.02
	LTE B28	703 ~ 748	758 ~ 803	25.00	-4.82
	LTE B34	2010 ~ 2025	2010 ~ 2025	25.00	2.04
	LTE B38	2570 ~ 2620	2570 ~ 2620	25.00	2.73
	LTE B40	2300 ~ 2400	2300 ~ 2400	25.00	1.32
	LTE B41	2496 ~ 2690	2496 ~ 2690	25.00	2.73



2.4 GENERAL DESCRIPTION OF APPLIED STADARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

ETSI EN 301 511 V12.5.1 (2017-03)

ETSI EN 301 908-1 V15.2.1 (2023-01)

ETSI EN 301 908-13 V13.3.1 (2024-10)

ETSI TS 136 101 V17.8.0 (2023-01)

ETSI TS 136 508 V17.4.0 (2023-01)

ETSI TS 138 521-3 V18.3.0 (2024-08)

ETSI TS 138 521-1 V18.3.0 (2024-08)

ETSI TS 151 010-1 V13.13.0 (2022-05)

Note: All test items have been performed and recorded as per the above standards

2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support Equipment							
NO	Description	Brand	Model No.	Serial Number	Supplied by		
1	NeoEyes NE101 Sensing Camera	CamThink	NE101-L01GL	N/A	Client		
Support Cable							
NO	Description	Quantity (Number)	Length (cm)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A



3 TEST TYPES AND RESULTS

3.1 RADIATED SPURIOUS EMISSIONS MEASUREMENT

3.1.1 LIMITS OF RADIATED SPURIOUS EMISSIONS MEASUREMENT

FOR GSM traffic mode and idle mode

Traffic Mode			
Frequency Range	Power Level (dBm)		
	GSM 400, GSM 700, T-GSM 810 GSM 850, GSM 900.	DCS 1800	PCS 1900
30 MHz to 1 GHz	-36	-36	-36
1 GHz to 4 GHz	-30	/	-30
1 GHz to 1710 MHz	/	-30	/
1710 MHz to 1785 MHz	/	-36	/
1785 MHz to 4 GHz	/	-30	/

Idle Mode		
Frequency Range	Power Level (dBm)	
	GSM 400, T-GSM 810, GSM 900, DCS 1800	GSM 700, GSM 850, PCS 1900
30 MHz to 880 MHz	-57	-57
880 MHz to 915 MHz	-59	-57
915 MHz to 1000 MHz	-57	-57
1 GHz to 1710 MHz	-47	/
1710 MHz to 1785 MHz	-53	/
1785 MHz to 4 GHz	-47	/
1000 MHz to 1850 MHz	/	-47
1850 MHz to 1910 MHz	/	-53
1910 MHz to 4 GHz	/	-47



FOR WCDMA/LTE/NR UE traffic mode and idle mode

The requirements shown in this table are only applicable for frequencies in the spurious domain.

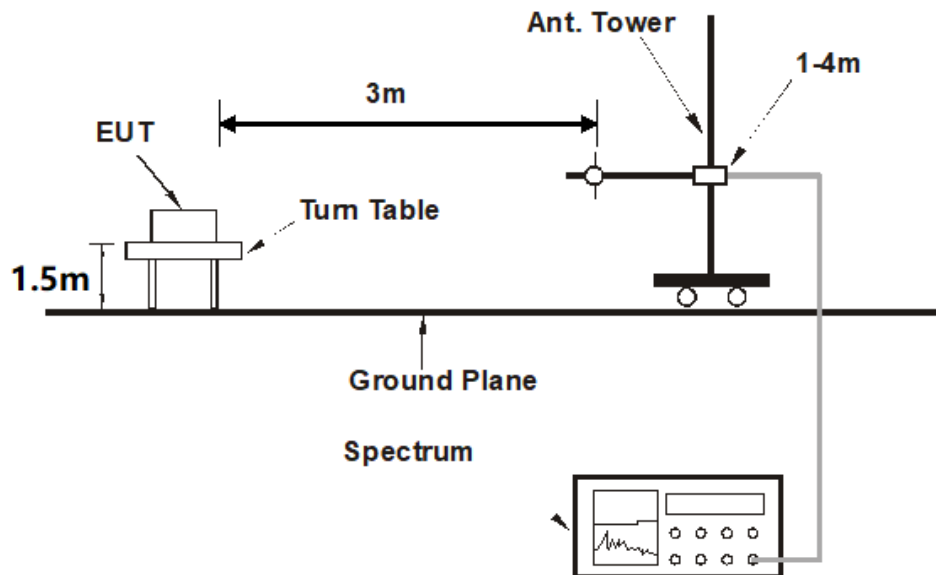
Frequency	Minimum requirement (e.r.p.)/ reference bandwidth idle mode	Minimum requirement (e.r.p.)/ reference bandwidth traffic mode	Applicability
$30 \text{ MHz} \leq f < 1\,000 \text{ MHz}$	-57 dBm/100 kHz	-36 dBm/100 kHz	All
$1 \text{ GHz} \leq f < 12,75 \text{ GHz}$	-47 dBm/1 MHz	-30 dBm/1 MHz	All
$12,75 \text{ GHz} \leq f < 5^{\text{th}}$ harmonic of the upper frequency edge of the Uplink operating band in GHz	-47 dBm/1 MHz	-30 dBm/1 MHz	All(note1)
$12,75 \text{ GHz} < f < 26 \text{ GHz}$	-47 dBm/1 MHz	-30 dBm/1 MHz	All (note 2)
$f_c - 2,5 \times 5 \text{ MHz} < f < f_c + 2,5 \times 5 \text{ MHz}$		Not defined	UTRA FDD, UTRA TDD, 3,84 Mcps option, cdma2000, spreading rate 3
$f_c - 2,5 \times BW_{\text{Channel}} \text{ MHz} < f < f_c + 2,5 \times BW_{\text{Channel}} \text{ MHz}$		Not defined	E-UTRA FDD, E-UTRA TDD, Mobile WiMAX™
$f_c - (1,5 \times BW_{\text{Channel}} + 5) \text{ MHz} < f < f_c + (1,5 \times BW_{\text{Channel}} + 5) \text{ MHz}$		Not defined	NR operating in FR1
$f_c - 2,5 \times 10 \text{ MHz} < f < f_c + 2,5 \times 10 \text{ MHz}$		Not defined	UTRA TDD, 7,68 Mcps option
$f_c - 4 \text{ MHz} < f < f_c + 4 \text{ MHz}$		Not defined	UTRA TDD, 1,28 Mcps option cdma2000, spreading rate 1
NOTE 1: Applies for Band that the upper frequency edge of the Uplink Band more than 2,69 GHz. NOTE 2: Applies for Band that the upper frequency edge of the Uplink Band more than 5,2 GHz.			

3.1.2 TEST SETUP

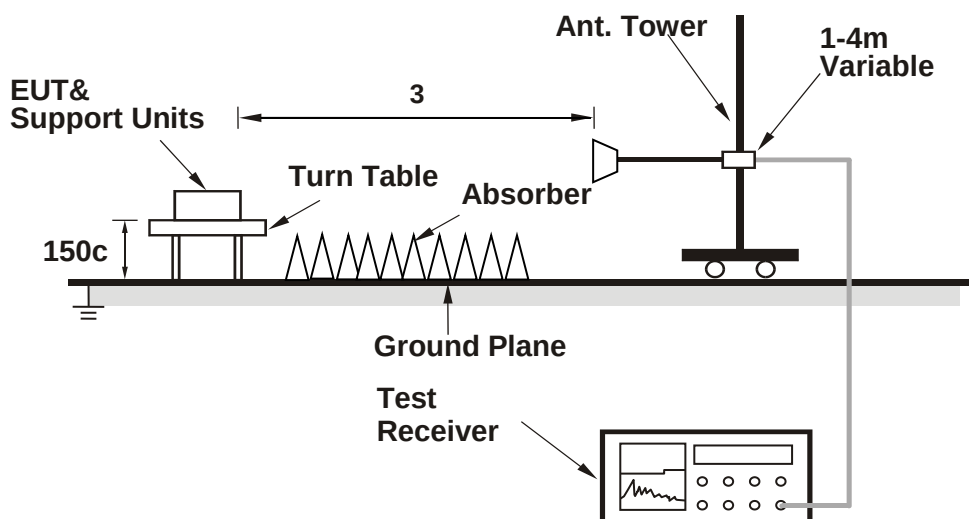
For the actual test configuration, please refer to the related Item in this test report (Photographs of Test Setup).

3.1.3 MEASUREMENT PROCEDURE

< Frequency Range 30MHz~1GHz >



< Frequency Range above 1GHz >

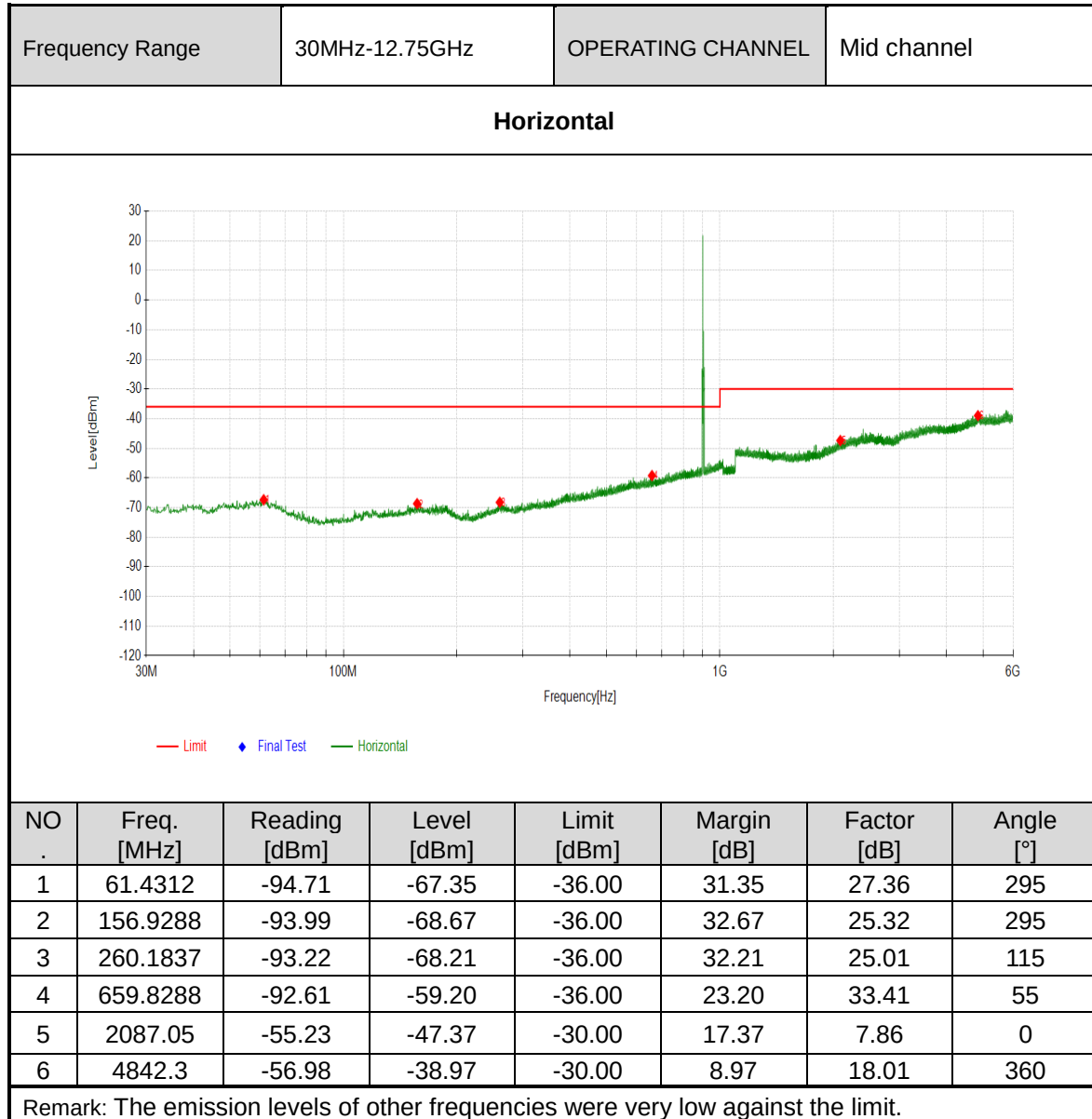


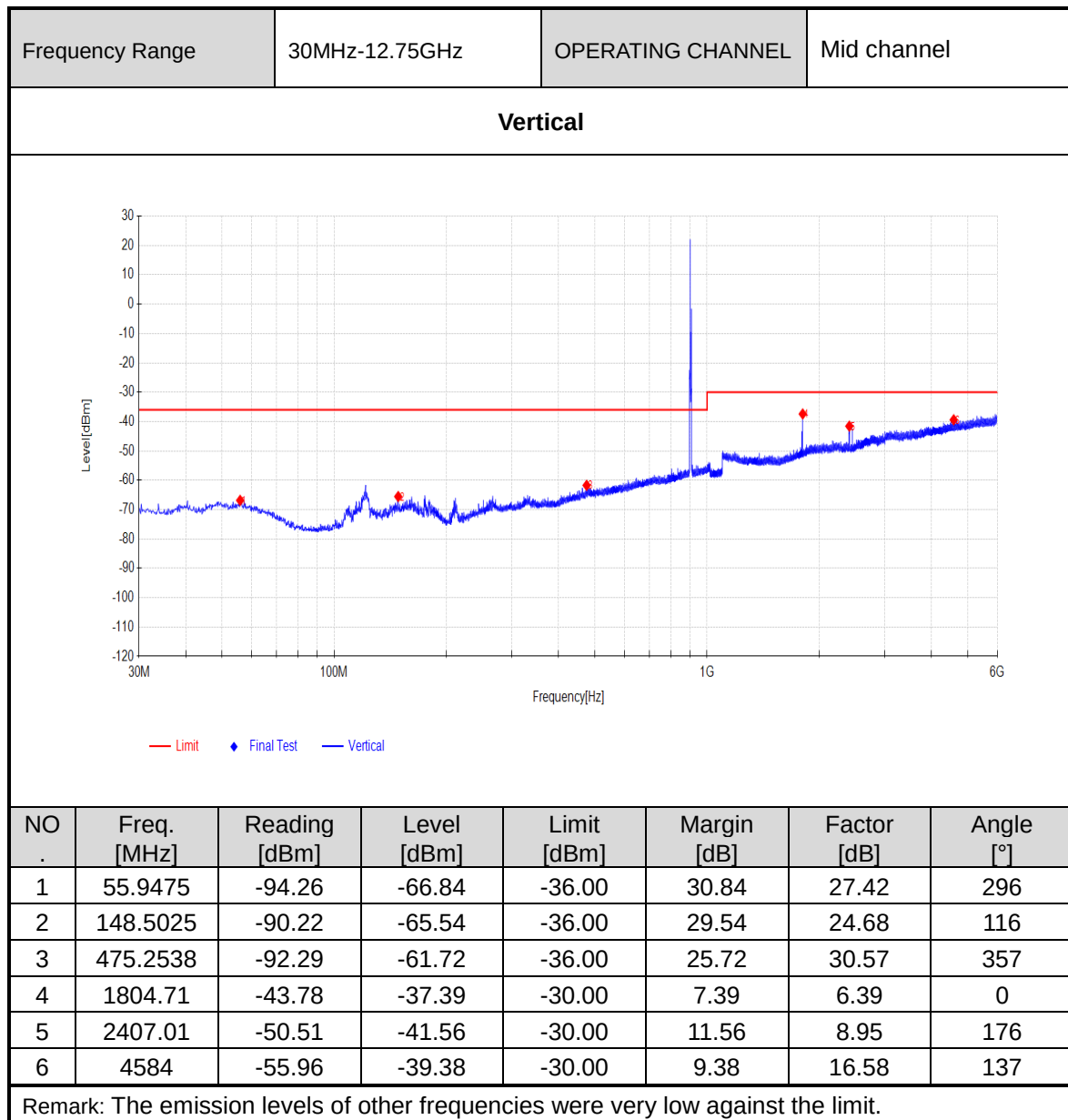


3.1.4 TEST RESULTS-GSM

All modes have been tested, and this report only reflects the worst-case data for each mode.

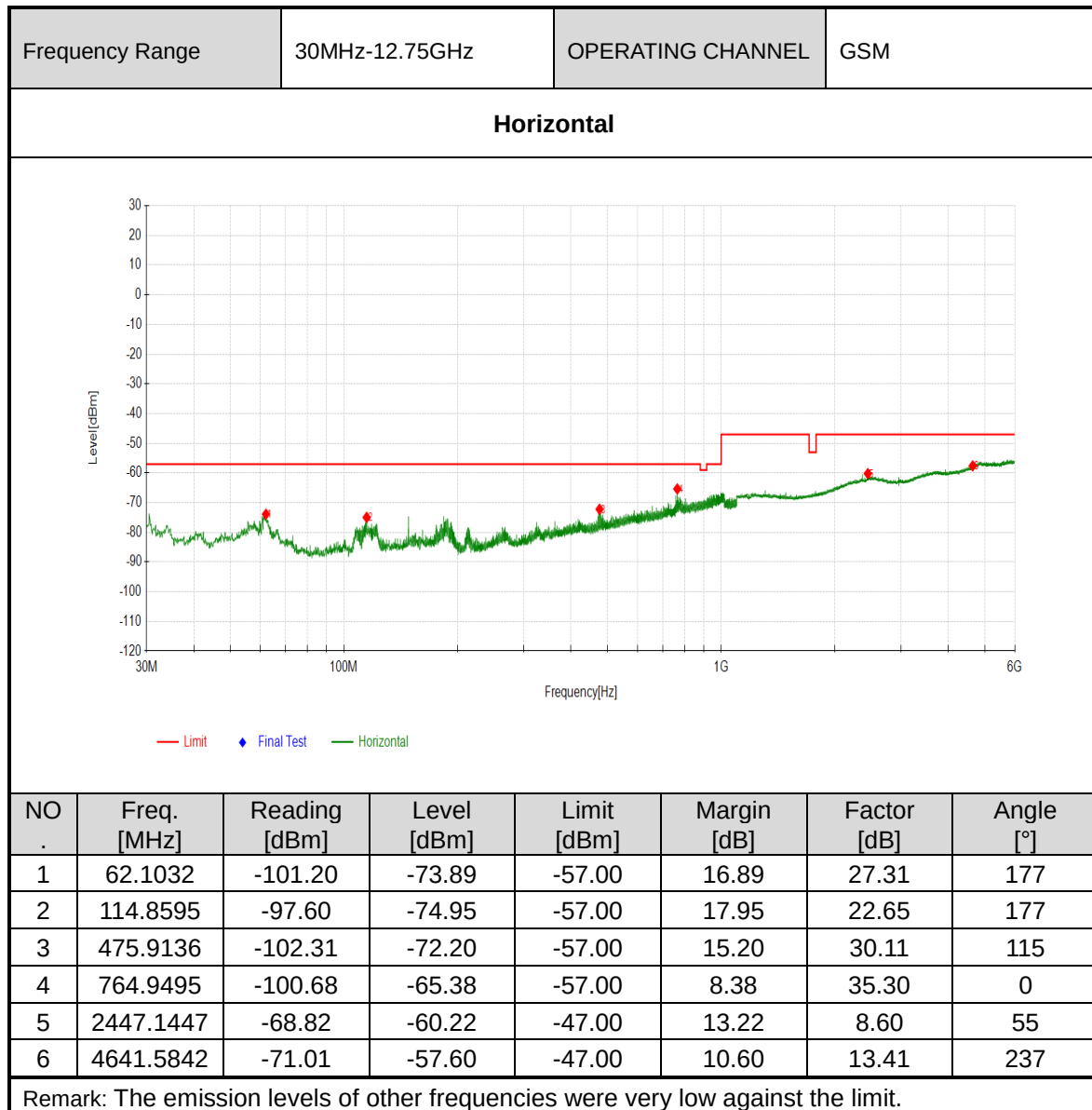
WORES CASE OF GSM 900

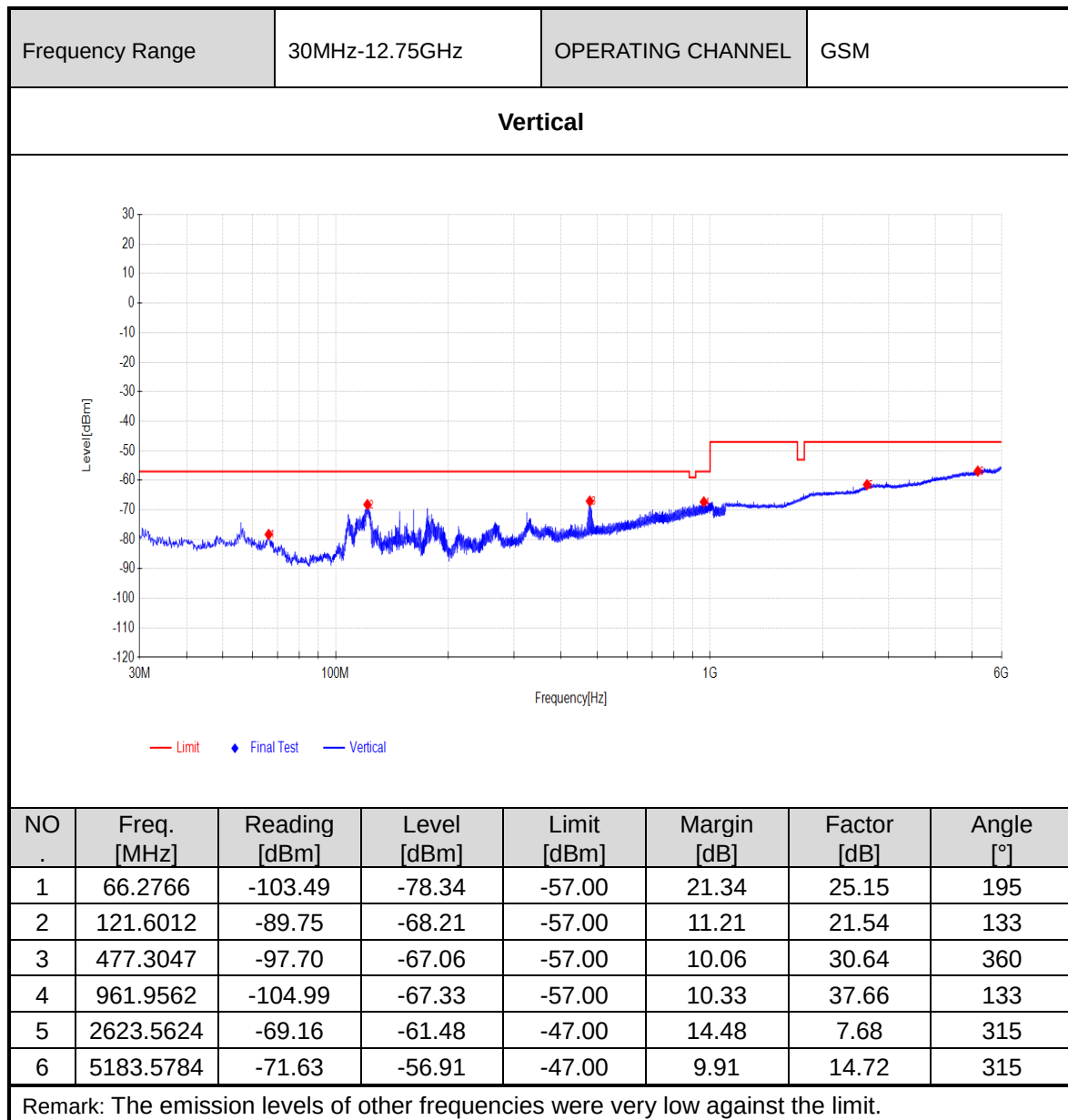






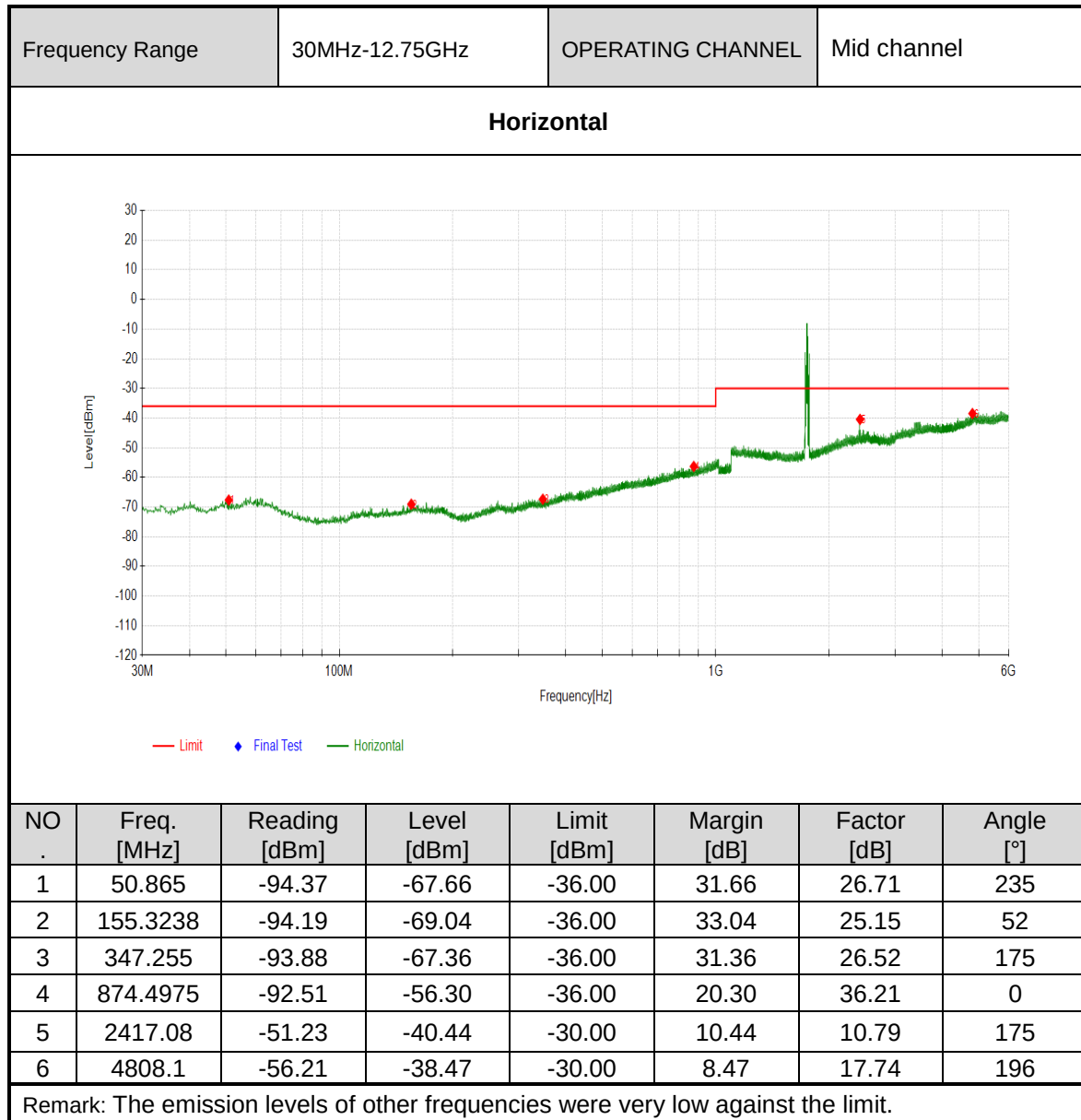
WORES CASE OF WORES CASE OF GSM 900 IDLE MODE

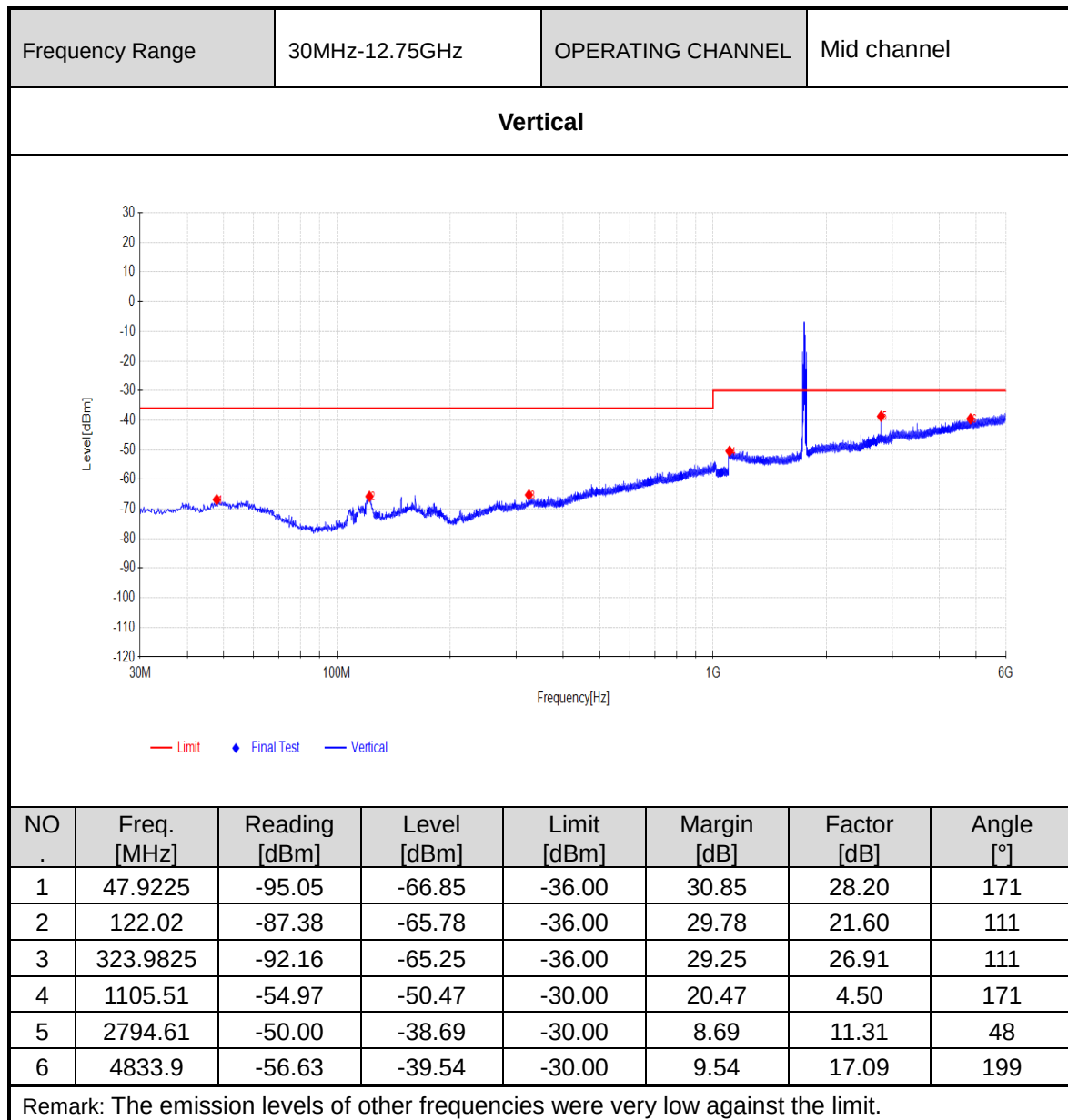






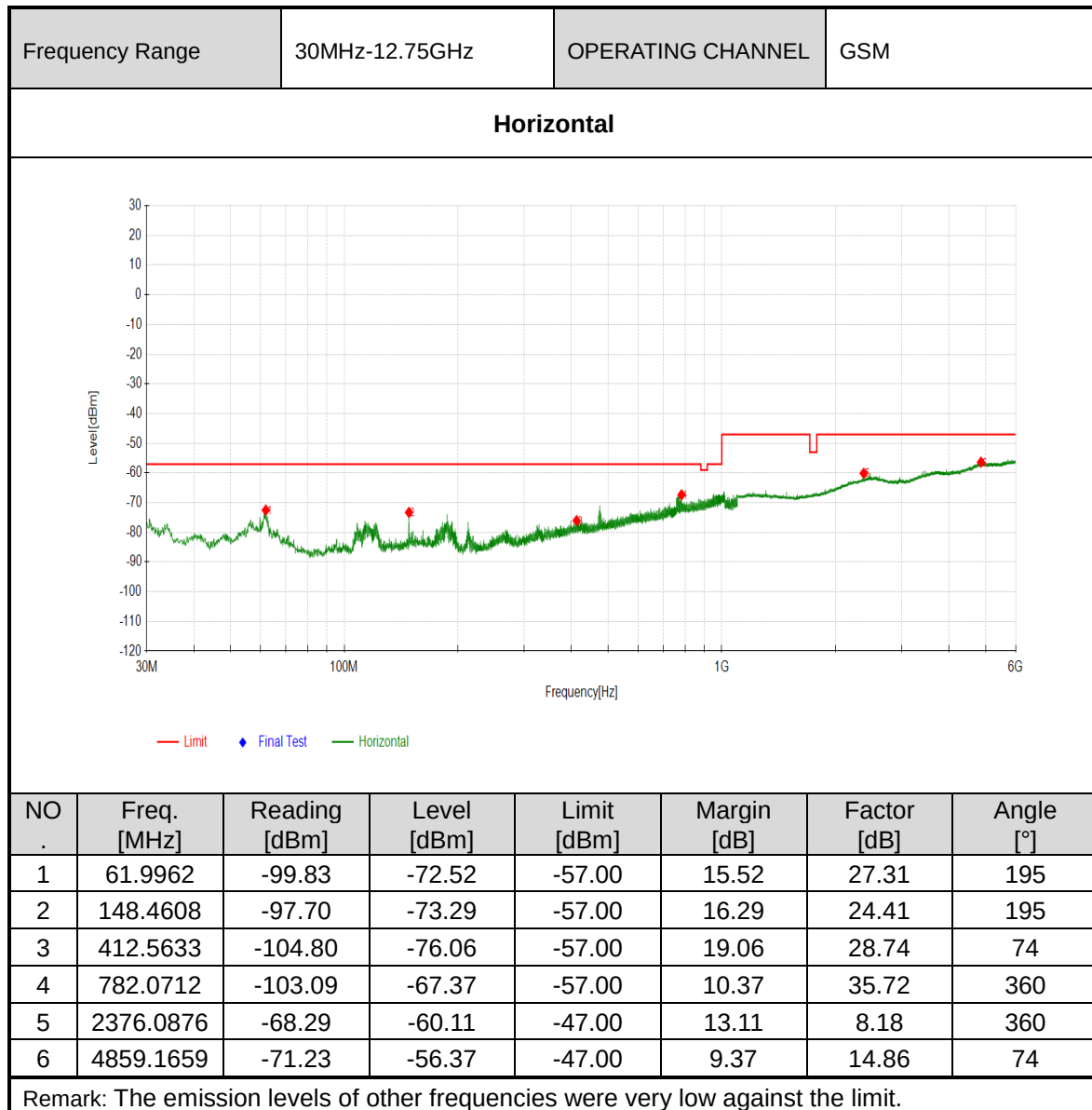
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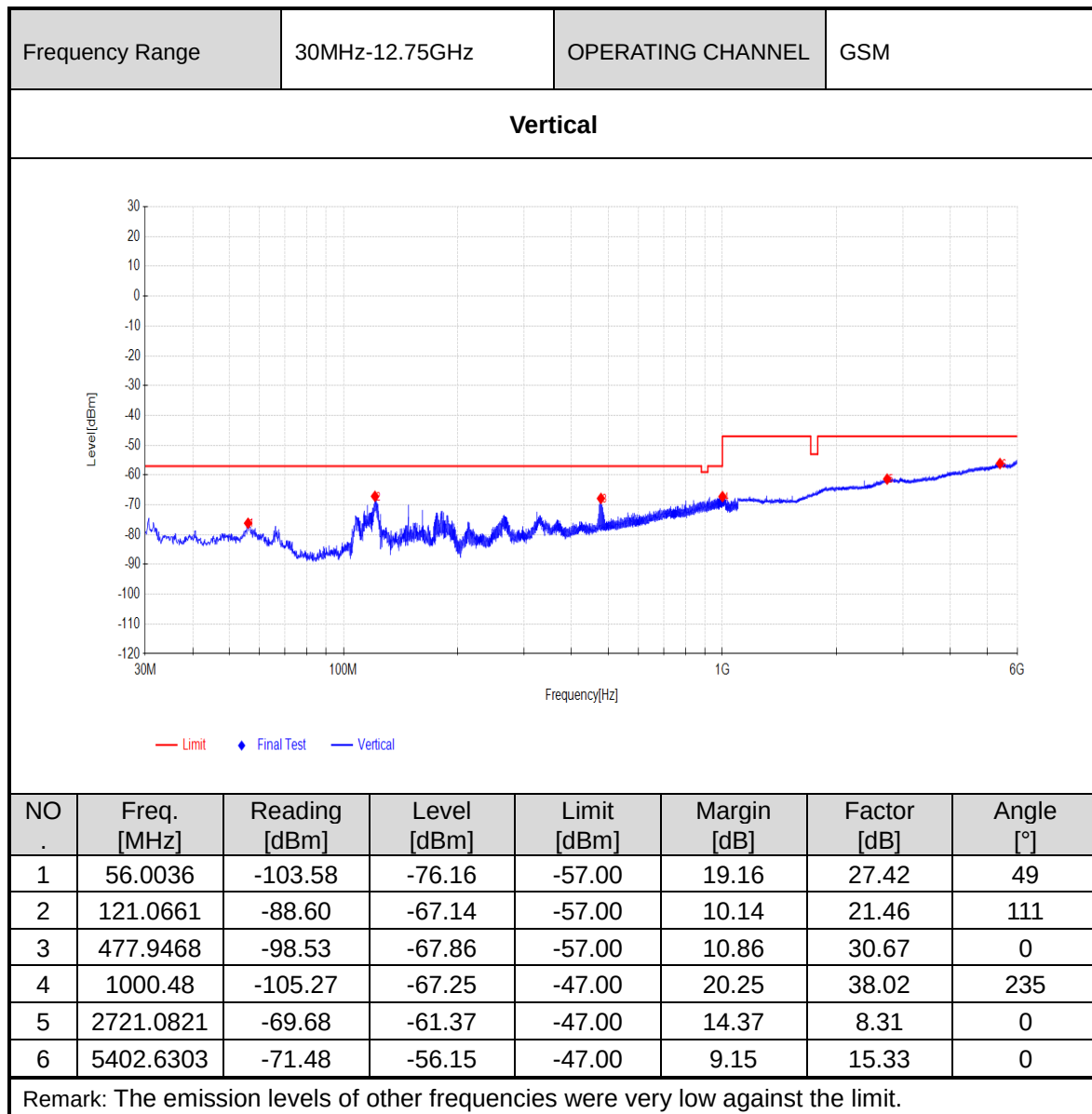






WORES CASE OF WORES CASE OF GSM 1800 IDLE MODE



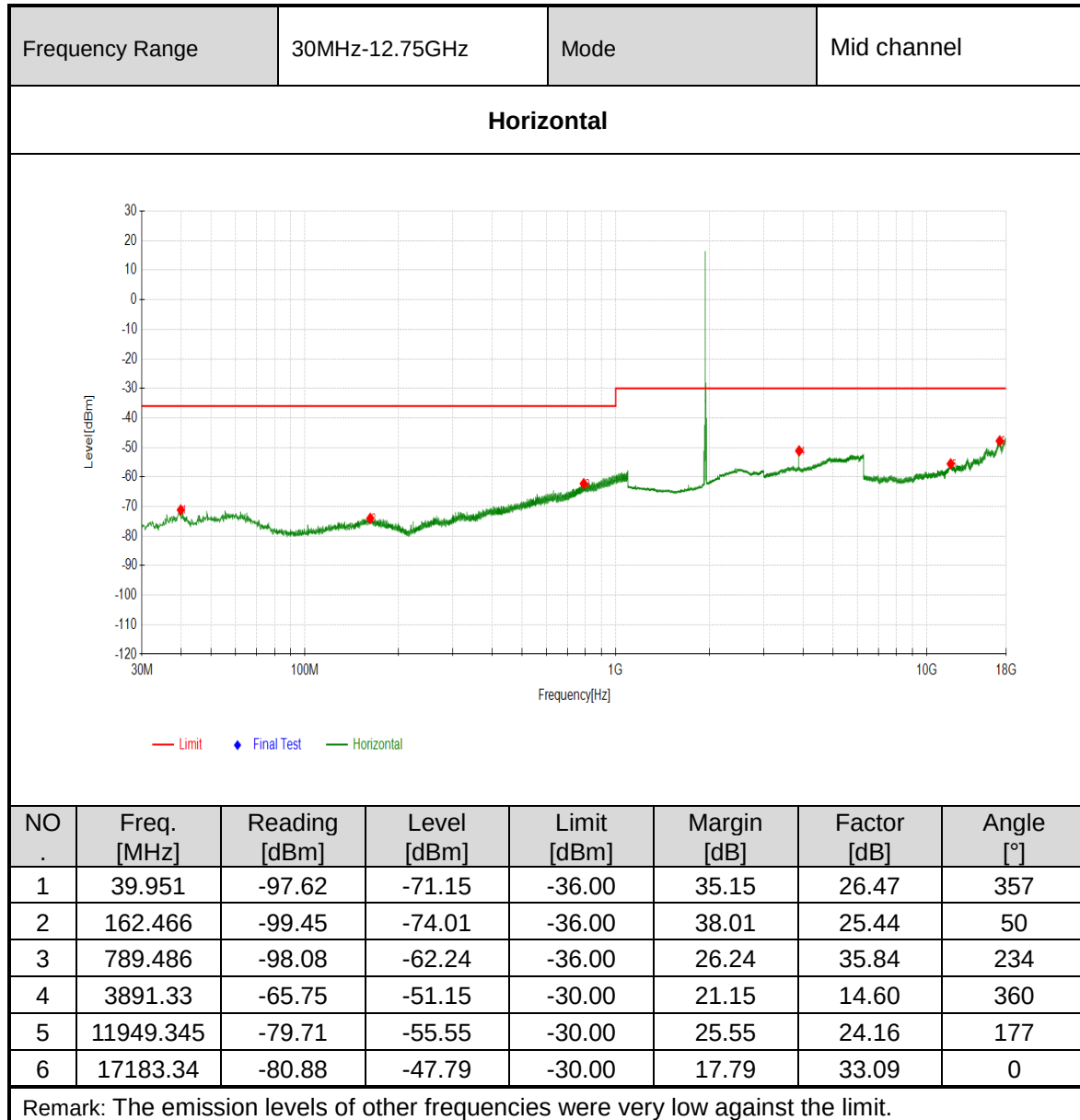


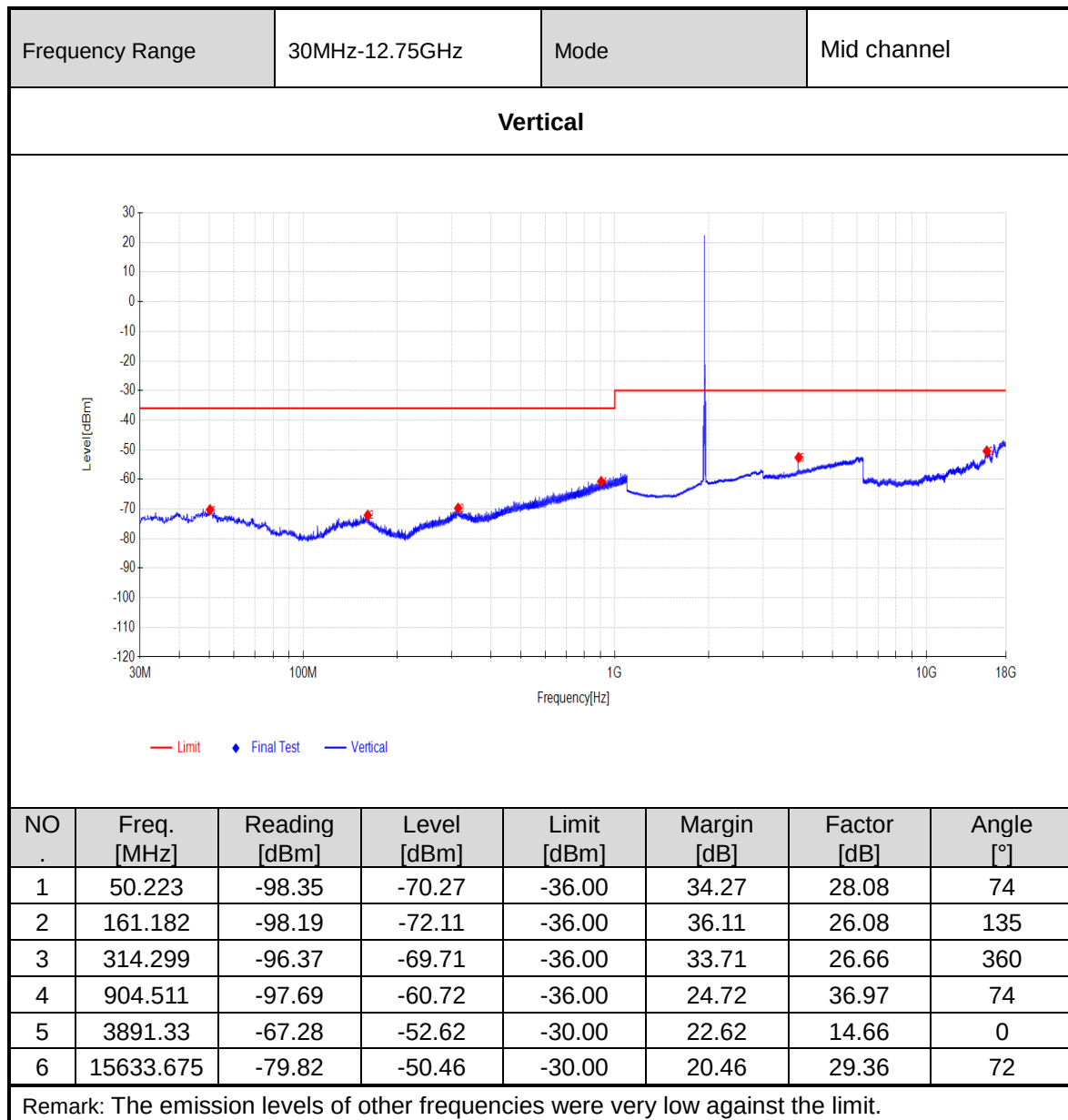


3.1.5 TEST RESULTS-LTE

All modes have been tested, and this report only reflects the worst-case data for each mode.

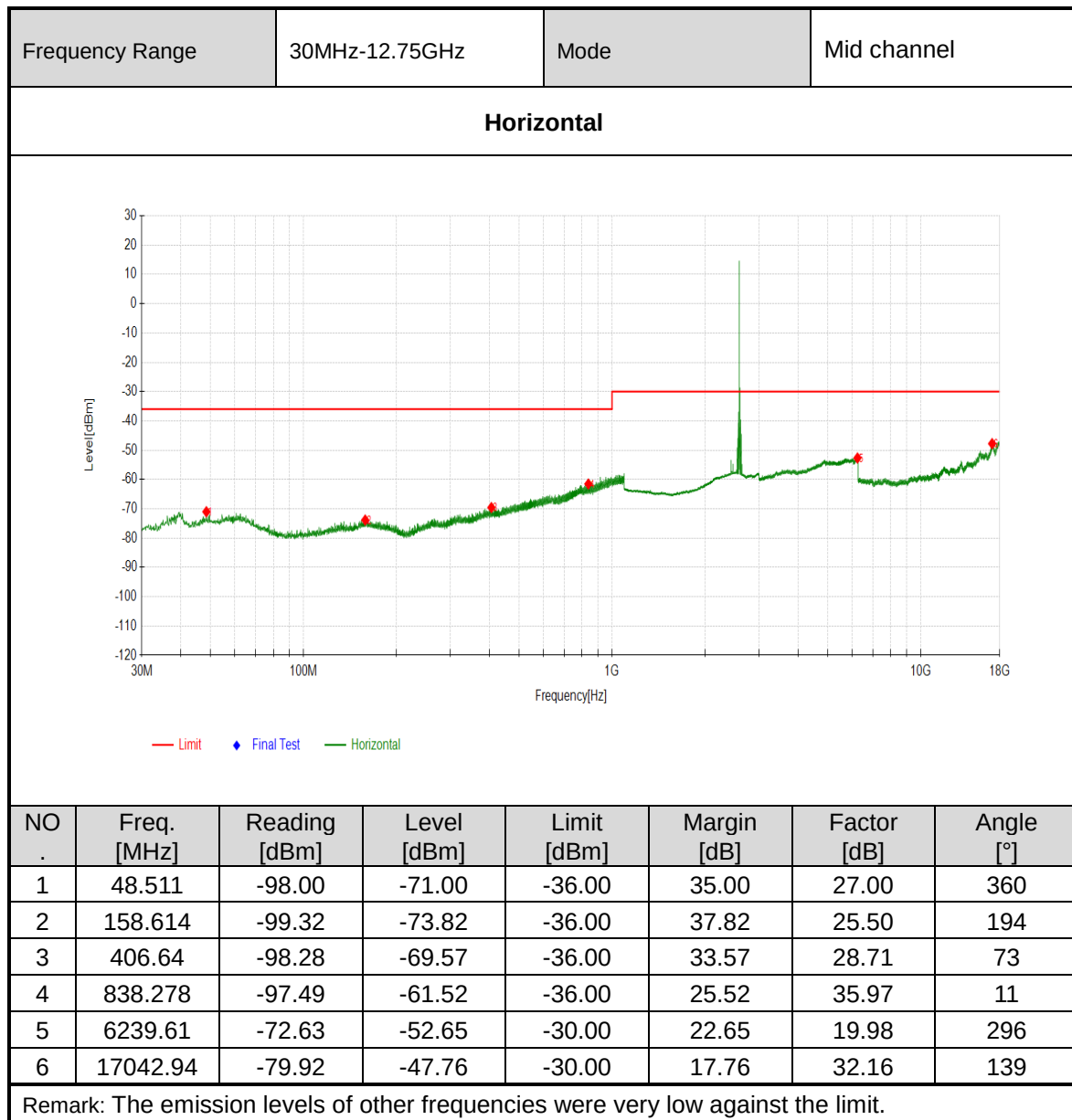
WORES CASE OF LTE-FDD B1

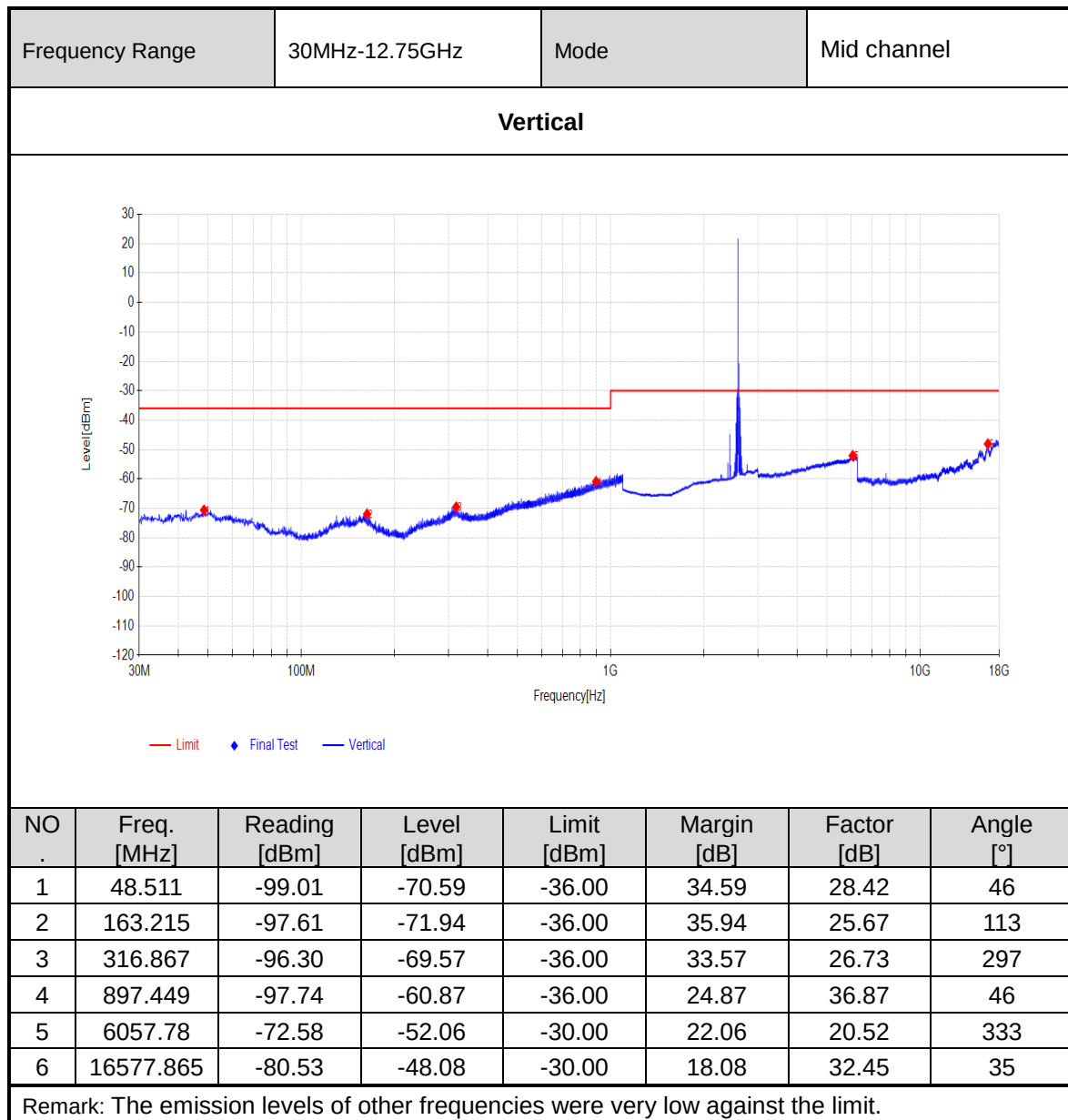






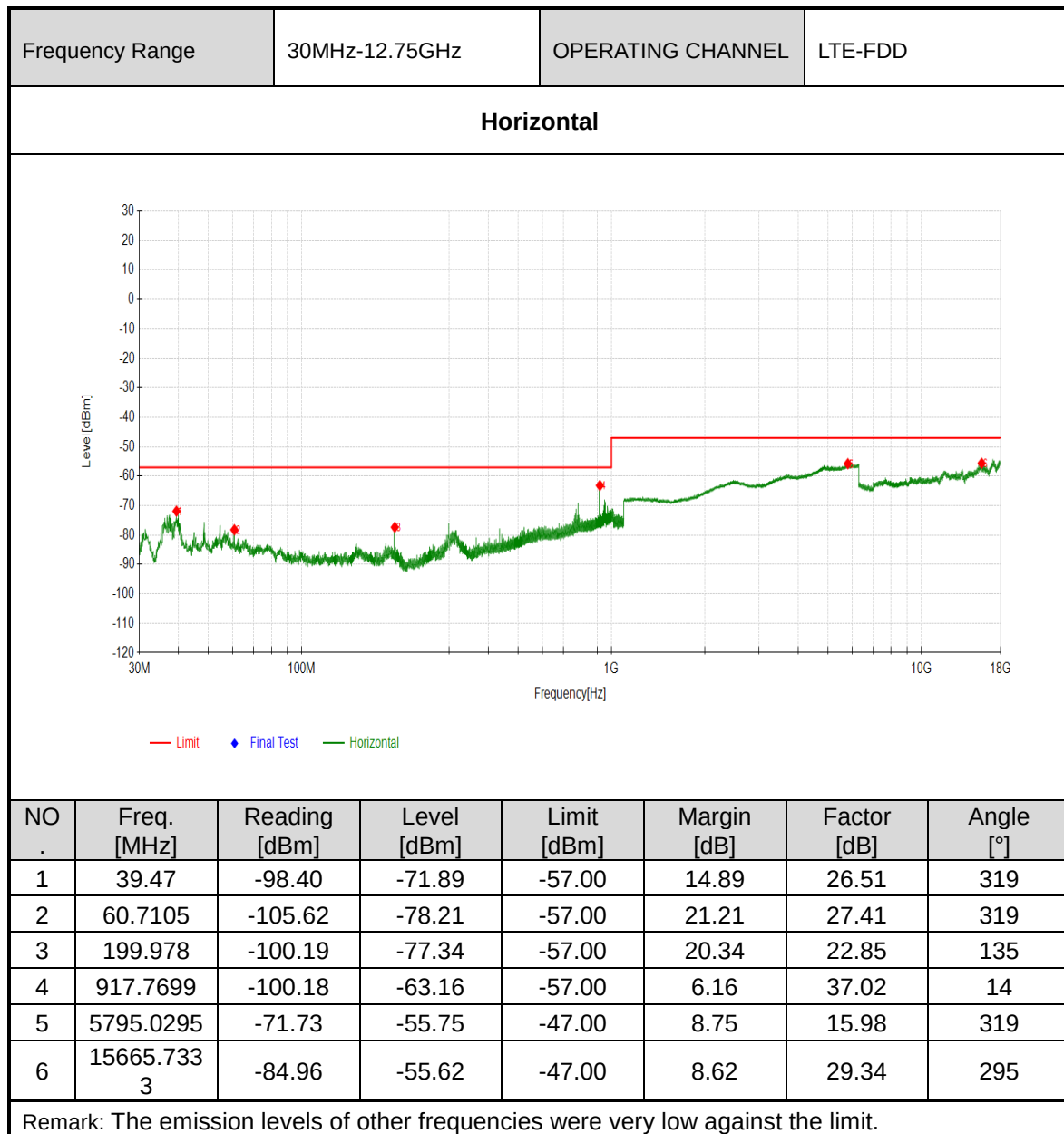
WORES CASE OF LTE-TDD B41

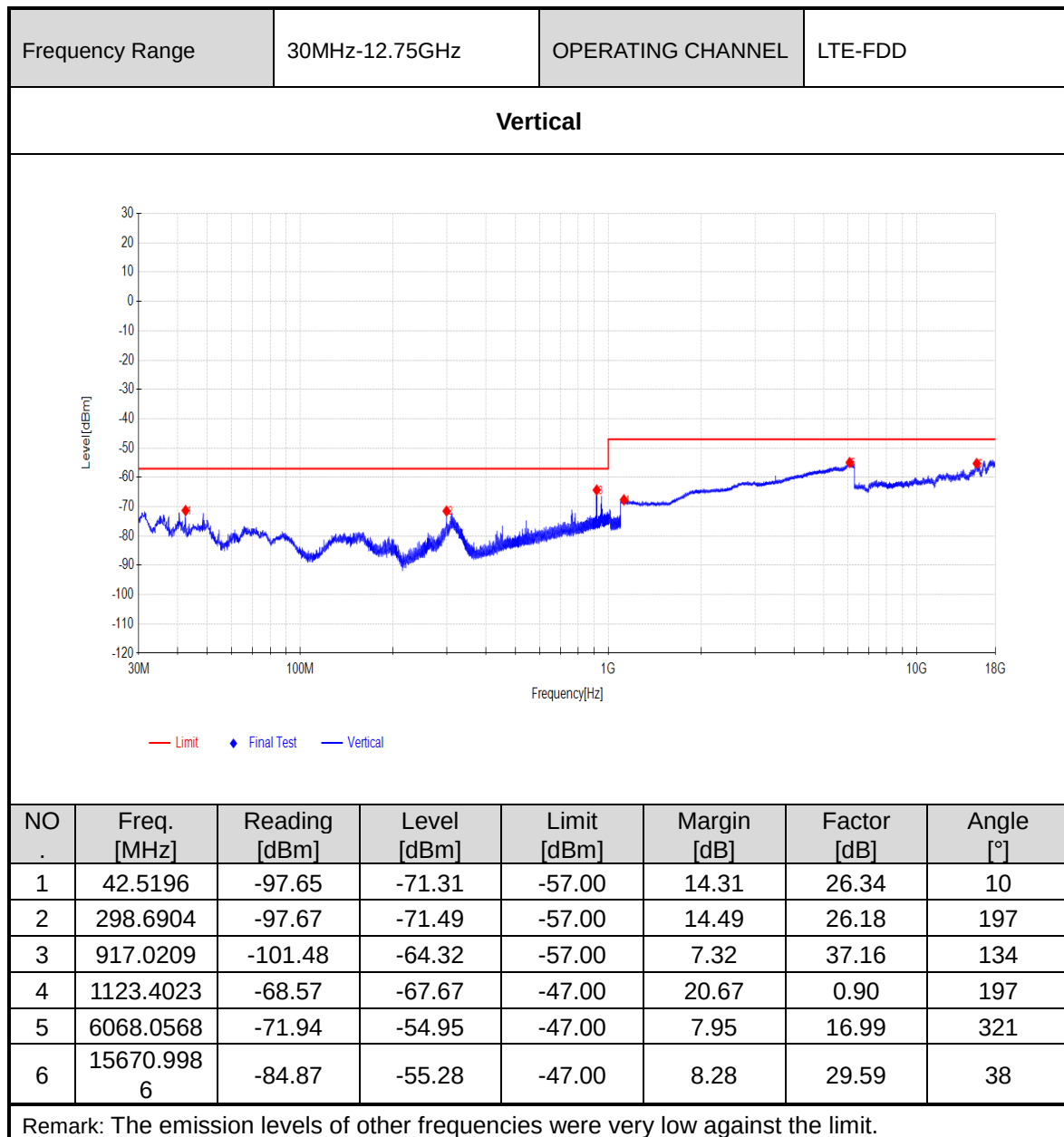






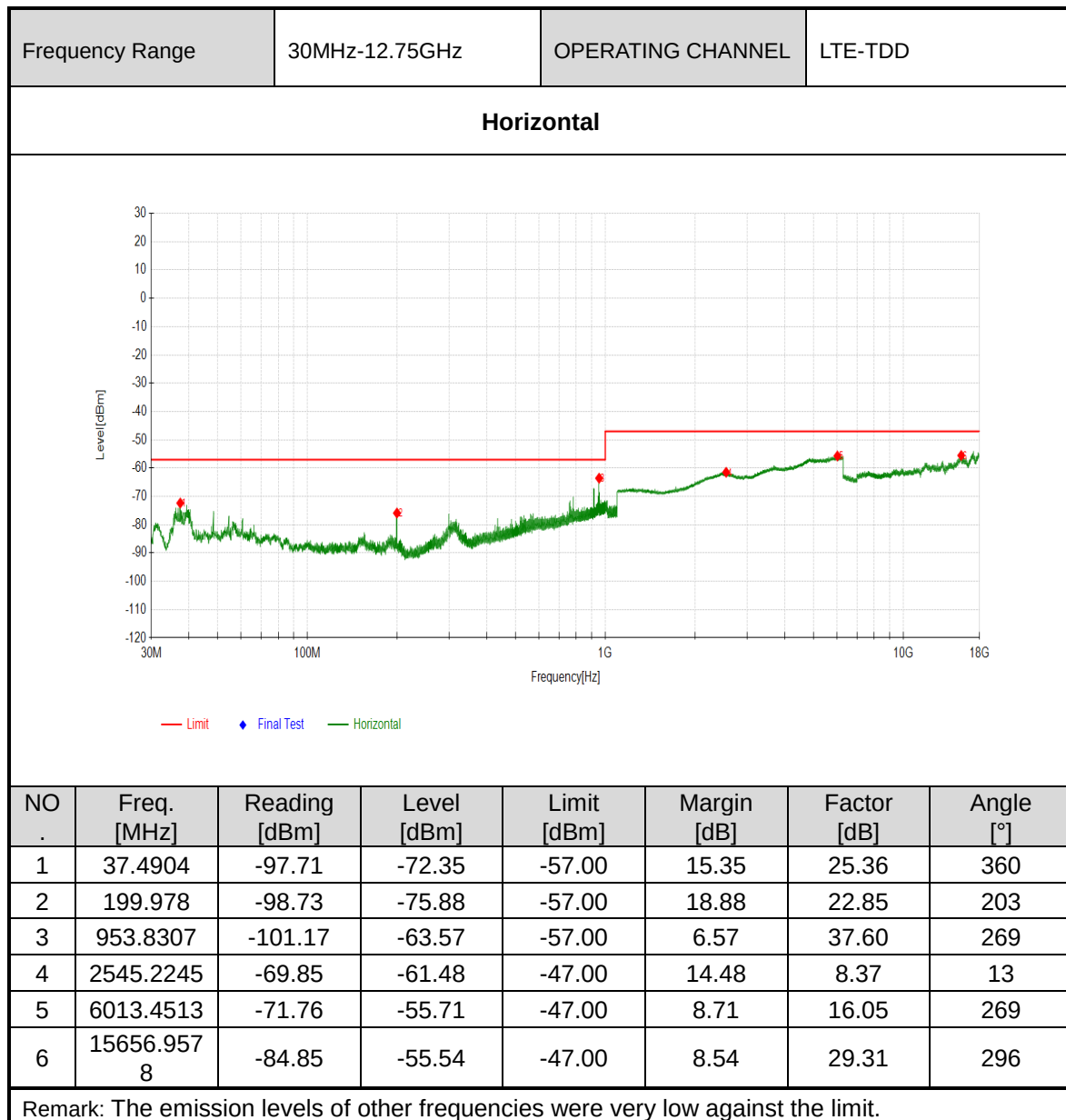
WORES CASE OF LTE-FDD IDLE MODE

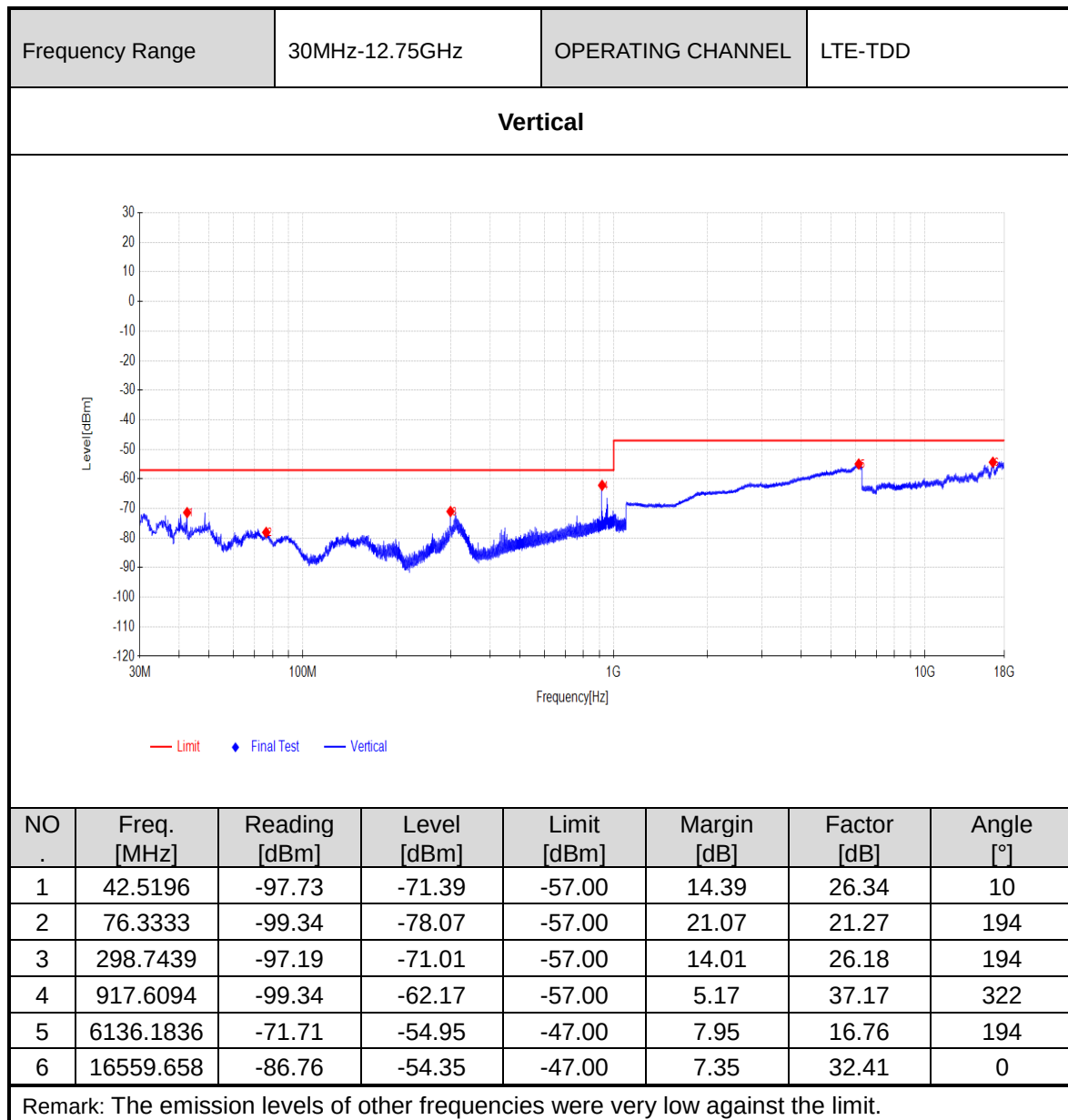






WORES CASE OF LTE-TDD IDLE MODE





4 PHOTOGRAPHS OF TEST SETUP



Spurious Emissions -1



Spurious Emissions - 2

----- End of the Report -----



Important

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of tester, reviewer and approver;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days;
- (6) Generally, commission test results apply to the samples as received. The sample information is provided by the customer and laboratory is not responsible for its authenticity;
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China

Post Code: 518110 Tel: 0755-23763060-8805

Fax: 0755-23763060 E-mail: sz-kf@cvc.org.cn