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Test report issued under the responsibility of:
EMITECH MONTPELLIER laboratory
Registration Number: 954701
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RADIO TEST REPORT

FCC 47 CFR PART 15: September 2025

FCC 47 CFR PART 15.249

RSS-210 _ Issue 11, June 2024

RSS-GEN, Issue 5: April 2018 / AMD1: 2019 / AMD2: 2021

Company: **TELECOM DESIGN S.A.**
Address.....: 2 BIS RUE NULLY DE HARCOURT
33610 CANEJAN
FRANCE

Test item description.: **Specialized gateway between elderly users and remote telecare platforms**
Trade Mark.: TELECOM DESIGN
Manufacturer.....: TELECOM DESIGN S.A.
Model/Type reference.....: VB-BOX-05 / Vibby Hub
FCC ID.....: 2AGMK-BOX05
IC.: 21552-BOX05
Ratings.....: 100-230Vac/50-60Hz

Testing Laboratory: **EMITECH MONTPELLIER laboratory**
Address.....: 145 rue de Massacan
34740 VENDARGUES
FRANCE

Report Reference No......: **RR-EVE-25H504-1A**
Test procedure.: FCC IC Certification
Diffusion.....: Mr PERROUX
Applicant's name.: TELECOM DESIGN S.A.
Date of issue.....: March 10, 2026
Total number of pages.....: 48
Revision.: 0
Compiled by.....: Morgan PATEY
Approved by (+ signature).: Olivier AELBRECHT (Technical Manager)



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This document is the result of testing a specimen or a sample of the product submitted. It does not imply an assessment of the conformity of
the whole manufactured products of the tested sample.*

REPORT INDEX:

1. GENERAL INFORMATIONS	3
2. REFERENCE DOCUMENT(S)	4
3. EQUIPMENT TECHNICAL DESCRIPTION	5
3.1. TEST CONDITIONS	5
3.2. E.U.T. GENERAL VIEW	6
3.3. E.U.T. MECHANICAL AND ELECTRICAL DESIGN.....	7
3.4. E.U.T. INPUT/OUTPUT PORTS.....	7
3.5. SUPPORTING EQUIPMENT USED DURING TEST	8
3.6. EUT RADIO SPECIFICATIONS.....	9
4. RESULT SUMMARY	10
5. MEASUREMENT UNCERTAINTY	12
6. TEST CONDITIONS AND RESULTS	13
6.1. CONDUCTED EMISSION MEASUREMENT	13
6.2. RADIATED SPURIOUS EMISSIONS.....	17
6.3. MAXIMUM PEAK POWER OF THE INTENTIONAL RADIATOR.....	34
6.4. 99% OCCUPIED BANDWIDTH	43
6.5. FREQUENCY STABILITY	47

REVISION HISTORY:

Revision	Date	Modified pages	Modifications
0	March 10, 2026	/	Creation

1. GENERAL INFORMATION

This document submits the results of Radio tests performed on the equipment **Vibby Hub VB-BOX-05** (denominated hereafter E.U.T.: equipment under test) according to document(s) listed in §2 of this test report.

TESTING PROCEDURE AND TESTING LOCATION:					
Testing Location		EMITECH MONTPELLIER laboratory			
Address.		145 rue de Massacan 34740 VENDARGUES FRANCE			
Test procedure.		FCC IC Certification			
Tested by		Morgan PATEY			
Test supervisor		None			
Date of receipt of test item		N/A			
Date (s) of performance of tests		From January the 22 nd to February the 02 nd of 2026			
APPLICANT'S GENERAL INFORMATION:					
Company name		TELECOM DESIGN S.A.			
Company address.		2 BIS RUE NULLY DE HARCOURT 33610 CANEJAN FRANCE			
Person(s) present during the tests.		No representative for company attended the tests.			
Responsible.		Mr PERROUX			
GENERAL REMARKS:					
The information in <i>italics</i> is declared by the manufacturer and is under his responsibility The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report the decimal separator is point.					
POSSIBLE TEST CASE VERDICTS:					
Test case does not apply to the test object. . :		N/A			
Test case not performed..... :		N/P			
Test object does meet the requirement..... :		P (Pass)			
Test object does not meet the requirement.. :		F (Fail)			
DEFINITIONS AND ABBREVIATIONS:					
E.U.T.	Equipment Under Test	AE	Ancillary Equipment	Pk	Peak detector
RBW	Resolution BandWidth	VBW	Video BandWidth	QP	Quasi-peak detector
FSOATS	Free Space Open Area Test Site	FAR	Full Anechoic Room	Av	Average detector
VP	Vertical Polarization	HP	Horizontal Polarization	RMS	Root Mean Square
RF	Radio Frequency	N.T.R	Nothing To Report	N/C	Not Communicated
SAC	Semi Anechoic Chamber				

2. REFERENCE DOCUMENT(S)

NORMATIVE REFERENCES:

The following referenced documents are necessary for the application of the present test report.

FCC 47 CFR PART 15: September 2025

Code of federal regulations Title 47 telecommunication - Part 15 - Radio frequency devices

FCC PART 15.249

Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz.

RSS-210 _ Issue 11, June 2024

Licence-Exempt Radio Apparatus: Category I Equipment

RSS-GEN, Issue 5: April 2018 / AMD1: 2019 / AMD2: 2021

General Requirements for Compliance of Radio Apparatus

ANSI C63.10: 2020

American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Although the product standard uses obsolete technical standards, the latest versions of standards achievable by the laboratory will be used for testing.

INFORMATIVE REFERENCES:

The following referenced documents are not necessary for the application of the present test report but they assist the user with regard to a particular subject area.

3. EQUIPMENT TECHNICAL DESCRIPTION

3.1. Test Conditions

Test item description. : Specialized gateway between elderly users and remote telecare platforms

Model/Type reference..... : VB-BOX-05 / Vibby Hub

Trade Mark. : TELECOM DESIGN

Serial number (S/N)..... : Not communicated

Part number (P/N). : Not communicated

Software version..... : *SOFT5391*

Firmware version..... : *SOFT5391*

Type of sample..... : Pre-serial

Function(s)..... : Not communicated

Manufacturer name. : TELECOM DESIGN S.A.

Address. : 2 BIS RUE NULLY DE HARCOURT
33610 CANEJAN
FRANCE

General product information:

N/A

3.2.E.U.T. General view



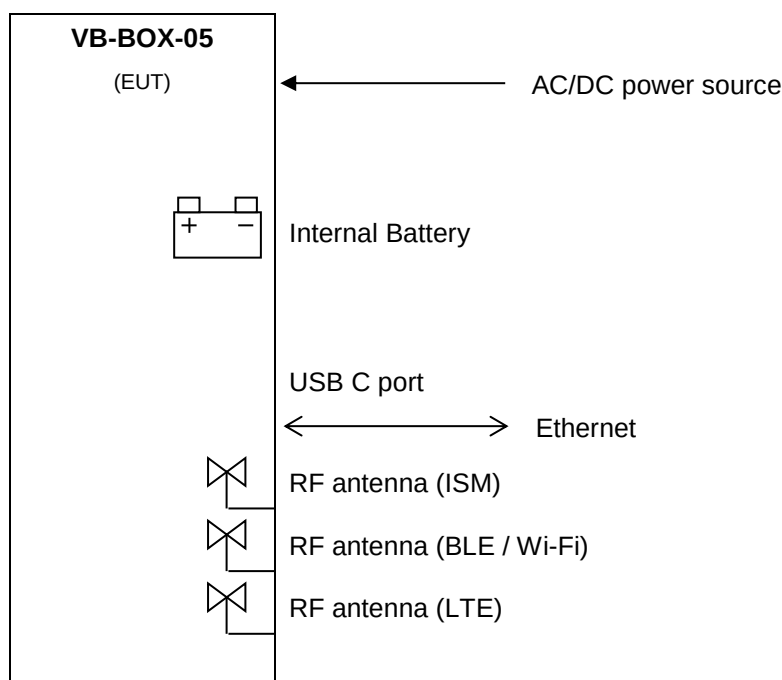
3.3.E.U.T. Mechanical and Electrical Design

Power supply.	: 120Vac/60Hz
Power supply range.....	: 100-230Vac/50-60Hz
Power type.....	: Single phase without earth
Power (W).....	: Not communicated
Nominal current (A).	: Not communicated
Dimensions (L x W x H) (m).	: Not communicated
Weight (kg).	: Not communicated
Temperature range (°C).	: Not communicated
Ground bounding strap.....	: No

Comments:

N/A

3.4.E.U.T. Input/Output ports



PORT	NAME	TYPE	LENGTH	CABLE TYPE	COMMENTS
0	Main frame	N/E	N/A	Plastic	N/A
1	AC/DC power source	AC/DC	N/A	+/-	120Vac / 60Hz
2	Internal Battery	DC	N/A	N/A	3.7 Vdc
3	USB C port	I/O	N/A	N/A	N/A
4	Ethernet	I/O	N/A	N/A	N/A
5	RF antenna (ISM)	RF	N/A	N/A	915 MHz
6	RF antenna (BLE / Wi-Fi)	RF	N/A	N/A	2.4 GHz
7	RF antenna (LTE)	RF	N/A	N/A	LTE

AC/DC :	AC/DC Converter port	AC	Alternative current port	DC	Direct current port
I/O	Input or Output port	TP.....	Telecommunication port	RF.....	Radio frequency port
N/E	Non Electrical port				

3.5. Supporting Equipment Used During Test

Sample subject to the tests was tested with following equipment.

PRODUCT TYPE	MANUFACTURER	MODEL	N°EMITECH / COMMENTS
AC/DC block (USA)	Huizhou fujia appliance tech. co.	FJ-GN127T30U	Used as EUT power supply

(AE) – AC/DC BLOCK (USA)



3.6. EUT Radio Specifications

a) GENERAL INFORMATIONS	
According to manufacturer's declarations :	
EUT type.....	<i>Transceiver</i>
Technology	<i>ISM + BLE + Wi-Fi + LTE</i>
Environmental profile.....	<i>Data transmissions</i>
Temperature range.....	<i>+10°C to +40°C</i>
Antenna type	<i>Integrated</i>
Antenna Gain.....	<i>0 dBi</i>
Comments:	
<i>N/A</i>	
b) TRANSMITTER PARAMETERS (Tx)	
Frequency bands.....	<i>ISM : 902 MHz to 928 MHz</i>
RF Power.....	<i>Not communicated</i>
Number of channels / Separation.....	<i>Not communicated</i>
Modulation type	<i>Not communicated</i>
Duty cycle	<i>Not communicated</i>
Tested frequency.....	<i>ISM : 902.1 MHz (low channel)</i>
	<i>ISM : 917.3 MHz (mid channel)</i>
	<i>ISM : 927.9 MHz (high channel)</i>
c) RECEIVER PARAMETERS (Rx)	
Frequency bands.....	<i>ISM : 902 MHz to 928 MHz</i>
Bandwidth.....	<i>Not communicated</i>

4. RESULT SUMMARY

TEST DESIGNATION	SEVERITY	VERDICT	BASIC STANDARDS / COMMENTS
Conducted emission measurement - Conducted measurement / 120Vac/60Hz	15.207	PASS	Fcc part 15.207 RSS-Gen ANSI C63.10: 2020
Radiated spurious emissions measurement - Radiated measurement / ISM all channels / 0° / 9kHz to 30MHz	15.209	PASS	Fcc part 15.209; 15.249 RSS-Gen; RSS-210 ANSI C63.10: 2020
- Radiated measurement / ISM all channels / 45° / 9kHz to 30MHz	15.209	PASS	
- Radiated measurement / ISM all channels / 90° / 9kHz to 30MHz	15.209	PASS	
- Radiated measurement / ISM low channel / 30MHz to 1GHz	15.209	PASS	
- Radiated measurement / ISM mid channel / 30MHz to 1GHz	15.209	PASS	
- Radiated measurement / ISM high channel / 30MHz to 1GHz	15.209	PASS	
- Radiated measurement / ISM low channel / 1GHz to 10GHz	15.209	PASS	
- Radiated measurement / ISM mid channel / 1GHz to 10GHz	15.209	PASS	
- Radiated measurement / ISM high channel / 1GHz to 10GHz	15.209	PASS	
Maximum peak power of the intentional radiator - EIRP / ISM low channel - EIRP / ISM mid channel - EIRP / ISM high channel	50mV/m 50mV/m 50mV/m	PASS PASS PASS	Fcc part 15.249 RSS-210 ANSI C63.10: 2020
99% Occupied Bandwidth - 99% bandwidth / Low channel - 99% bandwidth / Mid channel - 99% bandwidth / High channel	Within the band	PASS PASS PASS	RSS-GEN ANSI C63.10: 2020
Frequency Stability - ISM / All channels - Carrier off / All positions / 30MHz to 1GHz	Rx Rx	PASS PASS	RSS-GEN ANSI C63.10: 2020

Sample subject to the test complies for tests done with the requirements of the reference document(s) listed in §2 of this test report and, where applicable, with deviation(s) specified in this document.

To declare, or not, the compliance with the specifications, it was not explicitly taken into account of uncertainty associated with the results with the exception of emission tests based on CISPR standards.

TEST(S) PERFORMED	MODIFICATION(S)
Fcc part 15.207 RSS-Gen ANSI C63.10: 2020	N/A
Fcc part 15.209; 15.249 RSS-Gen; RSS-210 ANSI C63.10: 2020	N/A

TEST(S) PERFORMED	MODIFICATION(S)
Fcc part 15.249 RSS-210 ANSI C63.10: 2020	N/A

5. MEASUREMENT UNCERTAINTY

PARAMETER	MAXIMAL EMITECH UNCERTAINTY	MINIMAL STANDARD UNCERTAINTY
Radio frequency	$\pm 1 \times 10^{-7}$	$\pm 1 \times 10^{-7}$
RF power, conducted		
RF power	$\pm 0.8\text{dB}$	$\pm 1 \text{ dB}$
Power spectral density	$\pm 2.7\text{dB}$	$\pm 3 \text{ dB}$
Occupied bandwidth		
RF power	$\pm 3.8 \%$	$\pm 5 \%$
Adjacent channel power	$\pm 1.6 \text{ dB}$	$\pm 3 \text{ dB}$
Sensitivity of receiver (conducted)	$\pm 2.0 \text{ dB}$	$\pm 3 \text{ dB}$
Blocking	$\pm 4.0 \text{ dB}$	$\pm 4 \text{ dB}$
Transient		
Amplitude	$\pm 8.5 \%$	$\pm 20 \%$
At the frequency	$\pm 166 \text{ Hz}$	$\pm 250 \text{ Hz}$
Conducted emission (spurious)		
$f \leq 1 \text{ GHz}$	$\pm 0.8 \text{ dB}$	$\pm 3 \text{ dB}$
$1 \text{ GHz} - 12.75 \text{ GHz}$	$\pm 1.6 \text{ dB}$	
Radiated power (ERP / EIRP / spurious)		
$f \leq 62.5 \text{ MHz}$	$\pm 5.2 \text{ dB}$	$\pm 6 \text{ dB}$
$62.5 \text{ MHz} - 1 \text{ GHz}$	$\pm 5.4 \text{ dB}$	$\pm 6 \text{ dB}$
$1 \text{ GHz} - 18 \text{ GHz}(\sim)$	$\pm 5.2 \text{ dB}$	$\pm 6 \text{ dB}$
$18 \text{ GHz} - 40 \text{ GHz}$	$\pm 5.8 \text{ dB}$	$\pm 6 \text{ dB}$
$40 \text{ GHz} - 110 \text{ GHz}$	$\pm 5.5 \text{ dB}$	Between ± 6 to 10 dB
EIRP and power spectral density with diode	$\pm 5.4 \text{ dB}$	$\pm 6 \text{ dB}$
Radiated emission (magnetic field)		
$9\text{kHz} - 30\text{MHz}$	$\pm 4.3 \text{ dB}$	$\pm 6 \text{ dB}$
RF level for a given BER	$\pm 0.8 \text{ dB}$	$\pm 1.5 \text{ dB}$
Supply voltages	$\pm 2.9 \%$	$\pm 3 \%$
Temperature	$\pm 0.95 \text{ }^{\circ}\text{C}$	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 4.6 \%$	$\pm 5 \%$
Time / Duty cycle	$\pm 4.4 \%$	$\pm 5 \%$
Adaptivity	$\pm 3.2 \text{ dB}$	/
Conducted emission (FCC)		
(Artificial Mains Network) $150\text{kHz} - 30\text{MHz}$	$\pm 3.7 \text{ dB}$	/
Radiated emission (electric field for FCC standard)		
$9\text{kHz} - 30\text{MHz}$	$\pm 4.3 \text{ dB}$	/
$30\text{MHz} - 1\text{GHz}$	$\pm 5.9 \text{ dB}$	/
$1\text{GHz} - 18\text{GHz}$	$\pm 4.8 \text{ dB}$	/
$18\text{GHz} - 40\text{GHz}$	$\pm 5.9 \text{ dB}$	/
$40\text{GHz} - 140\text{GHz}$	$\pm 5.7 \text{ dB}$	/

For the calculation of expanded uncertainty, the confidence interval is 95 % (k=2).

6. TEST CONDITIONS AND RESULTS

6.1. Conducted emission measurement

Reference standard:	Fcc part 15.207 RSS-Gen
Test method:	ANSI C63.10: 2020
General test setup: EUT is set on an insulating support at 40cm from the ground reference plane. All power was connected to the system through Artificial Mains Network (AMN). The AMN is placed at 80cm from the boundary of the EUT and bonded to a ground reference plane. All tested telecommunications lines (if applicable) were connected to an Asymmetric Artificial Network (AAN) and conducted voltage measurements on telecommunications lines were made at the output of the AAN. Where an AAN was not appropriate or available, measurements were made using a Capacitive Voltage Probe and/or a Current probe. Additional ground terminals (if any) are connected to earth terminal of the AMN.	

TESTED CABLE	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
Conducted measurement / 120Vac/60Hz	150kHz-30MHz	15.207	EMI4664	PASS

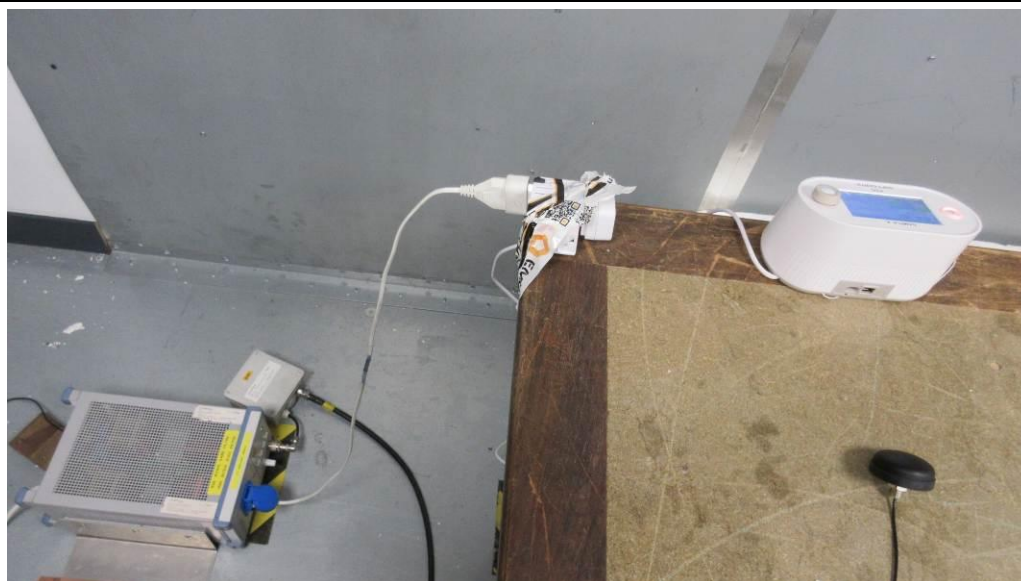
LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	See Graph(s)
Relative Humidity	10 to 90 %	See Graph(s)
Atmospheric pressure	N/A	See Graph(s)
Test method deviation: N/A		
Supplementary information: N/A		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
AC power supply	KIKUSUI	PCR 4000L	15322	13/06/2025	13/08/2027
Cable	EMITECH	Current absorber sheath	9491	09/12/2024	09/02/2027
Cable	C&C	N-3m	14335	09/06/2025	09/08/2027
Ground plane	EMITECH	Test area	11569		
LISN	Rohde & Schwarz	ENV216	17925	06/12/2023	06/02/2026
Receiver	Rohde & Schwarz	ESW26	17791	04/09/2025	04/11/2026
Thermohygrometer	Testo	608-H2	12268	18/02/2025	18/04/2027

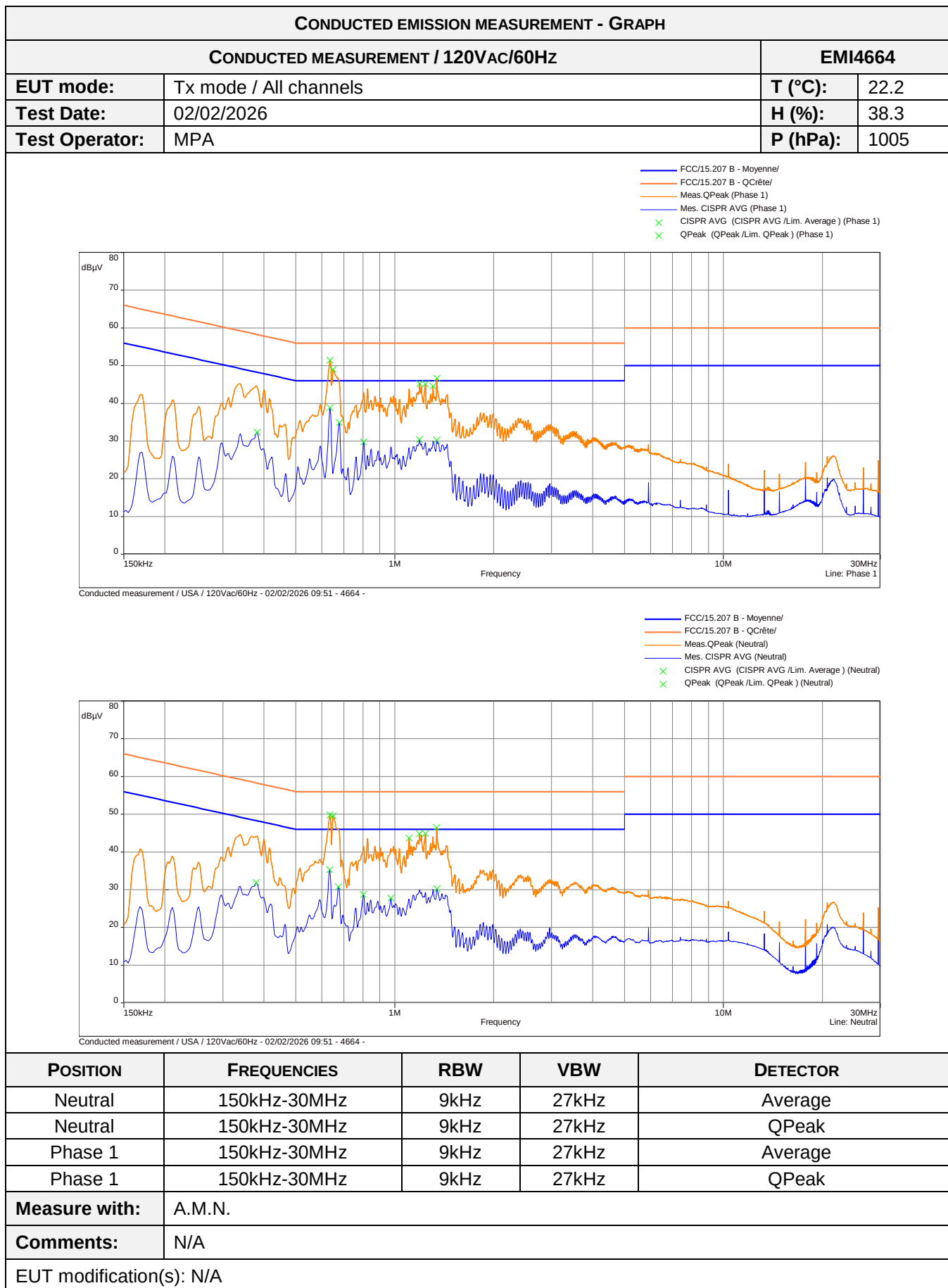
BAT-EMC software version: V3.18.0.26

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TEST SETUP PHOTO(S) - CONDUCTED MEASUREMENT



CONDUCTED EMISSION MEASUREMENT – TABULATED RESULTS					
CONDUCTED MEASUREMENT / 120VAC/60Hz					EMI4664
FREQUENCY (MHz)	TERMINAL	DETECTOR	LEVEL (dB μ V)	LIMIT (dB μ V)	MARGIN (dB)
0.380	Neutral	Average	31.84	48.29	-16.45
0.634	Neutral	Average	35.31	46	-10.69
0.674	Neutral	Average	30.73	46	-15.27
0.803	Neutral	Average	28.69	46	-17.31
0.974	Neutral	Average	27.77	46	-18.23
1.345	Neutral	Average	30.27	46	-15.73
0.382	Line 1	Average	32.31	48.24	-15.93
0.636	Line 1	Average	38.88	46	-7.12
0.679	Line 1	Average	34.92	46	-11.08
0.805	Line 1	Average	29.73	46	-16.27
1.190	Line 1	Average	30.40	46	-15.60
1.343	Line 1	Average	30.21	46	-15.79
0.636	Neutral	QPeak	49.81	56	-6.19
0.650	Neutral	QPeak	49.52	56	-6.48
1.106	Neutral	QPeak	43.66	56	-12.34
1.190	Neutral	QPeak	44.81	56	-11.19
1.239	Neutral	QPeak	44.85	56	-11.15
1.343	Neutral	QPeak	46.49	56	-9.51
0.636	Line 1	QPeak	51.40	56	-4.60
0.650	Line 1	QPeak	48.94	56	-7.06
1.192	Line 1	QPeak	45.21	56	-10.79
1.239	Line 1	QPeak	45.12	56	-10.88
1.309	Line 1	QPeak	44.57	56	-11.43
1.345	Line 1	QPeak	46.65	56	-9.35
Supplementary information: N/A					



6.2. Radiated spurious emissions

Reference standard:	Fcc part 15.209; 15.249 RSS-Gen; RSS-210
Test method:	ANSI C63.10: 2020
General test setup: For $f < 30\text{MHz}$, EUT is set on an insulating support at 80cm above the ground reference plane. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter in a semi-anechoic chamber. The EUT was rotated 360° in order to maximize radiated levels. Test antenna was oriented in 3 axes (0°, 45° and 90°). Final measurements (quasi-peak) were then performed in a 10-meter Open Area Test Site that complies to CISPR 16 in the same measurement conditions. For $f > 30\text{MHz}$, EUT is set on an insulating support at 80cm above the ground reference plane. For $f > 1\text{GHz}$, EUT is set on an insulating support at 150cm above the ground reference plane. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements (quasi-peak or average) were then performed in a semi-anechoic chamber or Open Area Test Site that complies to CISPR 16. The EUT was rotated 360° about its azimuth and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated, where applicable. For portable equipments: - For frequencies $< 1\text{GHz}$ a research of maximum level is done on 3 axes - For frequencies $> 1\text{GHz}$ styrofoam wedges, precut to the 30°, 60°, and 90° angles, are used to support the EUT in the 6 different orientations.	

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
Radiated measurement / ISM All channels / 0° / 9kHz to 30MHz	9kHz-30MHz	15.209	EMI4522	PASS
Radiated measurement / ISM All channels / 45° / 9kHz to 30MHz	9kHz-30MHz	15.209	EMI4546	PASS
Radiated measurement / ISM All channels / 90° / 9kHz to 30MHz	9kHz-30MHz	15.209	EMI4547	PASS
Radiated measurement / ISM low channel / 30 MHz to 1 GHz	30MHz-1GHz	15.209	EMI4553	PASS
Radiated measurement / ISM mid channel / 30 MHz to 1 GHz	30MHz-1GHz	15.209	EMI4554	PASS
Radiated measurement / ISM high channel / 30 MHz to 1 GHz	30MHz-1GHz	15.209	EMI4555	PASS
Radiated measurement / ISM low channel / 1 GHz to 10 GHz	1GHz-10GHz	15.209	EMI4579	PASS
Radiated measurement / ISM mid channel / 1 GHz to 10 GHz	1GHz-10GHz	15.209	EMI4580	PASS
Radiated measurement / ISM high channel / 1 GHz to 10 GHz	1GHz-10GHz	15.209	EMI4581	PASS

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	See Graph(s)
Relative Humidity	20 to 75 %	See Graph(s)
Atmospheric pressure	N/A	See Graph(s)
Test method deviation: N/A		
Supplementary information: From 9kHz to 30MHz, limit indicated on the curves is calculated with 40 dB/decade extrapolation factor and 51.5 dB conversion factor.		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	Rohde & Schwarz	HFH2-Z2	5825	25/04/2025	25/06/2027
Antenna	ETS lindgren	3142E	14523	08/08/2025	08/10/2028
Antenna	AARONIA	Powerlog 70180	15306	04/01/2023	04/03/2026
Cable	Techniwave	N-1.5m	18341	13/10/2025	13/12/2027
Cable	Techniwave	N-1.5m	18342	20/05/2024	20/07/2026
Cable	/	N-1m	3625	09/06/2025	09/08/2027
Cable	SUCOFLEX	N-3m	14379	01/09/2025	01/11/2027
Cable	SUCOFLEX	N-3m	14378	01/09/2025	01/11/2027
Cable	Techniwave	N-5,5m	18354	14/10/2025	14/12/2027
Cable	SUCOFLEX	N-6,5m	14380	17/08/2023	17/10/2026
Cable	Techniwave	N-8m	18349	17/08/2023	17/04/2026
Filter	Micro-Tronics	HPM15162	19385	25/03/2024	25/05/2026
Filter	Micro-Tronics	HPM18865	12843	03/12/2024	03/02/2028
Preamplifier	IMPULSE	CA118-546ACN	9169	02/10/2024	02/02/2026
Receiver	Rohde & Schwarz	ESW8	19536	13/08/2025	13/10/2027
Receiver	Rohde & Schwarz	FSW43	14830	07/07/2025	07/09/2027
Shielded enclosure	COMTEST	C.V2	18014	05/11/2024	05/01/2028
Shielded enclosure	COMTEST	C.V4	18014	05/11/2024	05/01/2028
Shielded enclosure	COMTEST	SAC 3m	14494	08/08/2023	08/10/2026
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H2	12268	18/02/2025	18/04/2027
Thermohygrometer	Testo	608-H2	12269	18/02/2025	18/04/2027
Thermohygrometer	LUFFT	OPUS 20	17844	05/06/2025	05/08/2026

BAT-EMC software version: V3.18.0.26

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TEST SETUP PHOTO(S) – EUT POSITIONS



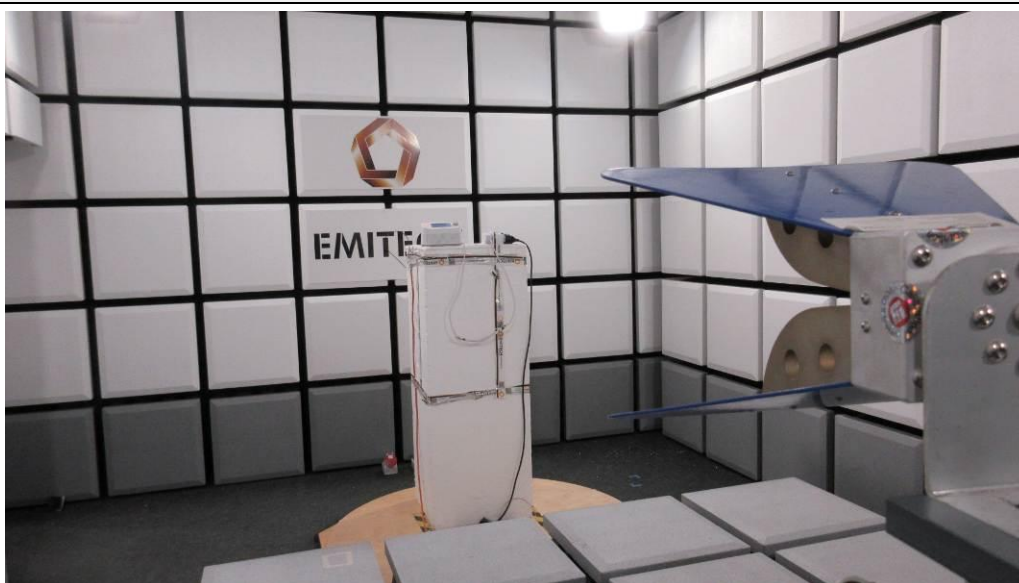
TEST SETUP PHOTO(S) – 9 KHz TO 30 MHz



TEST SETUP PHOTO(S) - 30 MHz TO 1 GHz



TEST SETUP PHOTO(S) - 1 GHz TO 10 GHz



RADIATED EMISSION MEASUREMENT – TABULATED RESULTS					
RADIATED MEASUREMENT / ISM ALL CHANNELS / 0° / 9kHz TO 30MHz					EMI4522
FREQUENCY (MHz)	PEAK LEVEL (dBμA/m)	AVERAGE LEVEL (dBμA/m)	QPEAK LEVEL (dBμA/m)	AVERAGE / QPEAK LIMIT (dBμA/m)	MARGING (dB)
0.074	2.04	N/P	N/P	58.70	-56.66
0.101	1.83	N/P	N/P	56.05	-54.22
0.172	5.93	N/P	N/P	51.42	-45.49
0.400	7.91	N/P	N/P	44.06	-36.15
0.507	2.29	N/P	N/P	22.01	-19.72
0.529	1.82	N/P	N/P	21.64	-19.82
0.602	-1.75	N/P	N/P	20.52	-22.27
0.703	-4.44	N/P	N/P	19.16	-23.60
0.760	-8.93	N/P	N/P	18.49	-27.42
0.992	-10.62	N/P	N/P	16.18	-26.80
1.093	-5.91	N/P	N/P	15.33	-21.24
1.133	-3.67	N/P	N/P	15.02	-18.69
1.218	-3.62	N/P	N/P	14.39	-18.01
Supplementary information: when margin between peak measurements and average or quasi-peak limit is >6dB, no average or quasi-peak measurements were performed.					

RADIATED SPURIOUS EMISSIONS – TABULATED RESULTS					
RADIATED MEASUREMENT / ISM ALL CHANNELS / 45° / 9kHz TO 30MHz					EMI4546
FREQUENCY (MHz)	PEAK LEVEL (dBμA/m)	AVERAGE LEVEL (dBμA/m)	QPEAK LEVEL (dBμA/m)	AVERAGE / QPEAK LIMIT (dBμA/m)	MARGING (dB)
0.010	23.28	N/P	N/P	76.10	-52.82
0.074	1.26	N/P	N/P	58.67	-57.41
0.101	1.90	N/P	N/P	56.04	-54.14
0.185	7.06	N/P	N/P	50.78	-43.72
0.400	8.29	N/P	N/P	44.06	-35.77
0.521	1.50	N/P	N/P	21.77	-20.27
0.550	1.66	N/P	N/P	21.29	-19.63
0.646	-2.83	N/P	N/P	19.90	-22.73
0.916	-9.53	N/P	N/P	16.87	-26.40
1.035	-10.15	N/P	N/P	15.81	-25.96
1.125	-1.53	N/P	N/P	15.08	-16.61
1.174	-4.43	N/P	N/P	14.71	-19.14
1.197	-3.58	N/P	N/P	14.54	-18.12
1.287	-9.31	N/P	N/P	13.91	-23.22
Supplementary information: when margin between peak measurements and average or quasi-peak limit is >6dB, no average or quasi-peak measurements were performed.					

RADIATED EMISSION MEASUREMENT – TABULATED RESULTS					
RADIATED MEASUREMENT / ISM ALL CHANNELS / 90° / 9kHz TO 30MHz					EMI4547
FREQUENCY (MHz)	PEAK LEVEL (dBμA/m)	AVERAGE LEVEL (dBμA/m)	QPEAK LEVEL (dBμA/m)	AVERAGE / QPEAK LIMIT (dBμA/m)	MARGING (dB)
0.010	24.16	N/P	N/P	76.12	-51.96
0.101	1.81	N/P	N/P	56.06	-54.25
0.148	-6.15	N/P	N/P	52.72	-58.87
0.174	4.92	N/P	N/P	51.31	-46.39
0.375	8.71	N/P	N/P	44.62	-35.91
0.490	4.32	N/P	N/P	22.30	-17.98
0.539	0.47	N/P	N/P	21.47	-21.00
0.601	-2.34	N/P	N/P	20.53	-22.87
0.623	-2.34	N/P	N/P	20.21	-22.55
0.645	-3.66	N/P	N/P	19.91	-23.57
0.945	-10.54	N/P	N/P	16.60	-27.14
1.032	-10.45	N/P	N/P	15.83	-26.28
1.119	-2.79	N/P	N/P	15.13	-17.92
1.209	-4.29	N/P	N/P	14.46	-18.75
1.232	-4.93	N/P	N/P	14.29	-19.22
1.284	-8.67	N/P	N/P	13.93	-22.60
1.313	-10.49	N/P	N/P	13.74	-24.23
Supplementary information: when margin between peak measurements and average or quasi-peak limit is >6dB, no average or quasi-peak measurements were performed					

RADIATED SPURIOUS EMISSION MEASUREMENT – TABULATED RESULTS					
RADIATED MEASUREMENT / ISM LOW CHANNEL / 30 MHz TO 1 GHz					EMI4553
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBμV/m)	QPEAK LEVEL (dBμV/m)	QPEAK LIMIT (dBμV/m)	MARGING (dB)
42.869	Vertical	33.08	N/P	66.84	-33.76
53.313	Vertical	33.42	N/P	66.84	-33.42
54.736	Vertical	32.57	N/P	66.84	-34.27
56.191	Vertical	33.66	N/P	66.84	-33.18
137.544	Vertical	36.41	N/P	43.5	-7.09
625.018	Vertical	40.30	N/P	66.84	-26.54
245.509	Horizontal	36.25	N/P	46	-9.75
246.964	Horizontal	37.18	N/P	46	-8.82
248.451	Horizontal	37.79	N/P	46	-8.21
249.971	Horizontal	37.58	N/P	46	-8.42
251.394	Horizontal	36.37	N/P	46	-9.63
625.018	Horizontal	36.81	N/P	66.84	-30.03
Supplementary information: when margin between peak measurements and quasi-peak limit is >6dB, no quasi-peak measurements were performed.					

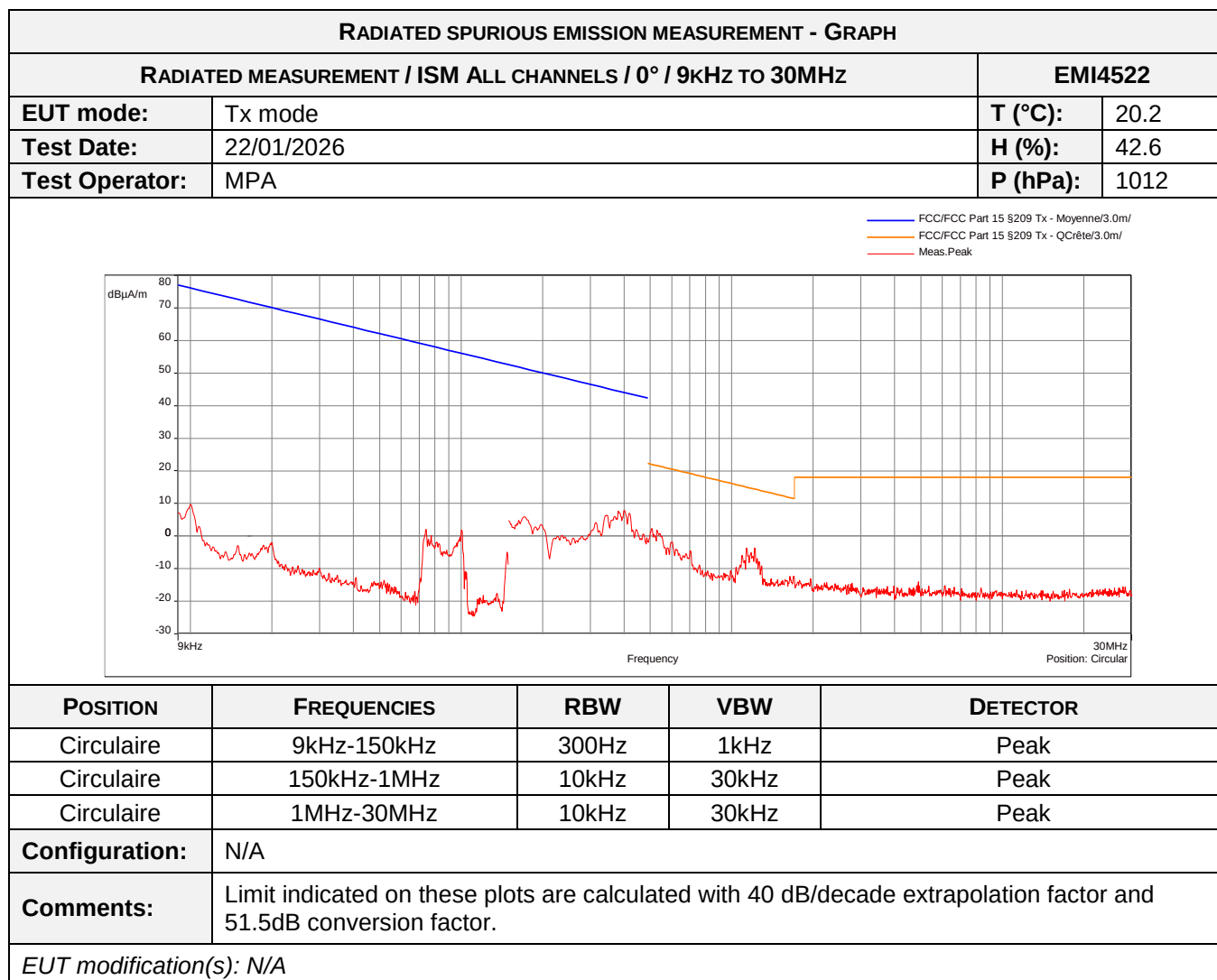
RADIATED SPURIOUS EMISSION MEASUREMENT – TABULATED RESULTS					
RADIATED MEASUREMENT / ISM MID CHANNEL / 30 MHz TO 1 GHz					EMI4554
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	QPEAK LEVEL (dBµV/m)	QPEAK LIMIT (dBµV/m)	MARGING (dB)
35.465	Vertical	33.28	N/P	40	-6.72
53.281	Vertical	33.66	N/P	69.25	-35.59
54.736	Vertical	33.08	N/P	69.25	-36.17
140.519	Vertical	37.20	N/P	69.25	-32.05
162.086	Vertical	35.77	N/P	43.5	-7.73
624.985	Vertical	40.15	N/P	69.25	-29.10
245.509	Horizontal	36.10	N/P	46	-9.90
247.061	Horizontal	37.87	N/P	46	-8.13
248.548	Horizontal	37.49	N/P	46	-8.51
249.971	Horizontal	37.65	N/P	46	-8.35
251.491	Horizontal	36.49	N/P	46	-9.51
624.985	Horizontal	37.01	N/P	69.25	-32.24
Supplementary information: when margin between peak measurements and quasi-peak limit is >6dB, no quasi-peak measurements were performed.					

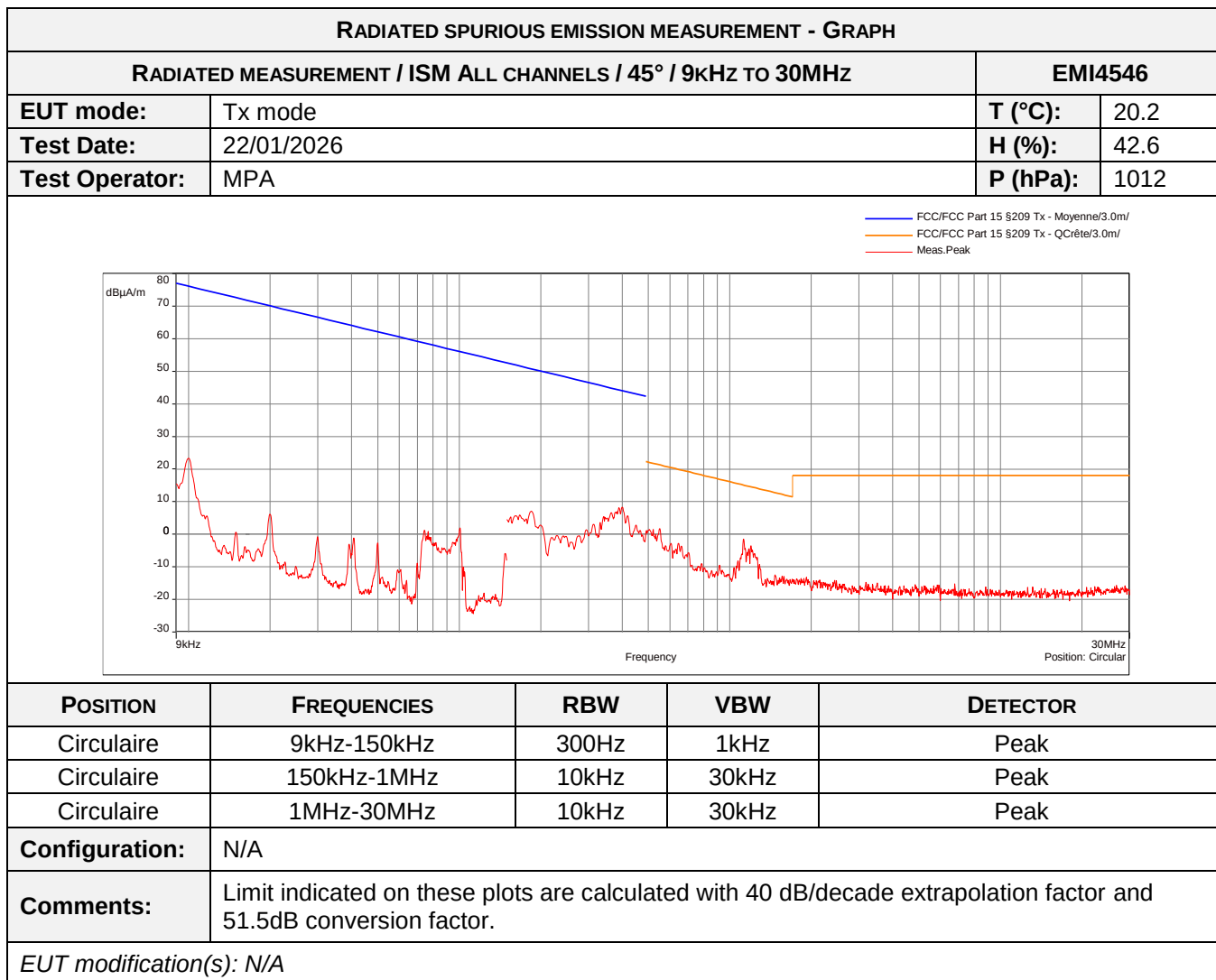
RADIATED SPURIOUS EMISSION MEASUREMENT – TABULATED RESULTS					
RADIATED MEASUREMENT / ISM HIGH CHANNEL / 30 MHz TO 1 GHz					EMI4555
FREQUENCY (MHz)	POLARIZATION	PEAK LEVEL (dBµV/m)	QPEAK LEVEL (dBµV/m)	QPEAK LIMIT (dBµV/m)	MARGING (dB)
35.982	Vertical	32.76	N/P	40	-7.24
51.761	Vertical	33.06	N/P	70.01	-36.95
54.736	Vertical	32.19	N/P	70.01	-37.82
56.223	Vertical	32.67	N/P	70.01	-37.34
137.577	Vertical	35.93	N/P	43.5	-7.57
625.018	Vertical	39.80	N/P	70.01	-30.21
109.478	Horizontal	33.86	N/P	43.5	-9.64
247.029	Horizontal	38.35	N/P	46	-7.65
248.484	Horizontal	36.85	N/P	46	-9.15
249.971	Horizontal	38.73	N/P	46	-7.27
251.491	Horizontal	36.04	N/P	46	-9.96
625.018	Horizontal	37.41	N/P	70.01	-32.60
Supplementary information: when margin between peak measurements and quasi-peak limit is >6dB, no quasi-peak measurements were performed.					

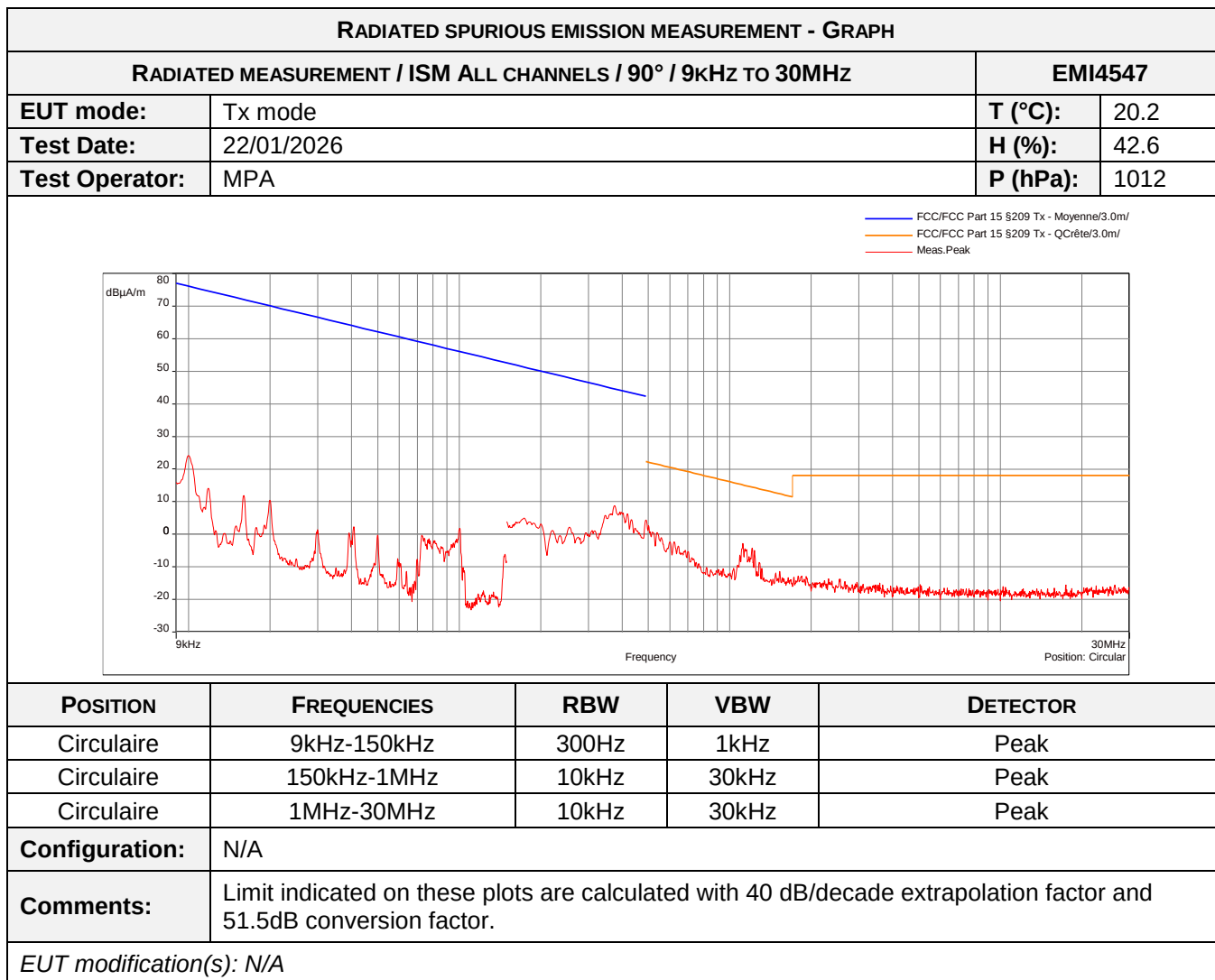
RADIATED SPURIOUS EMISSION MEASUREMENT – TABULATED RESULTS							
RADIATED MEASUREMENT / ISM LOW CHANNEL / 1 GHz TO 10 GHz						EMI4579	
FREQUENCY (MHz)	POLARIZATION	AVERAGE LEVEL (dBμV/m)	AVERAGE LIMIT (dBμV/m)	AVERAGE MARGING (dB)	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	PEAK MARGING (dB)
1804.026	Vertical	N/P	54	N/P	41.67	74	-32.33
3631.087	Vertical	50.95	54	-3.05	52.11	74	-21.89
3631.387	Horizontal	51.13	54	-2.87	52.12	74	-21.88
Supplementary information: when margin between peak measurements and average limit is >6dB, no average measurements were performed.							

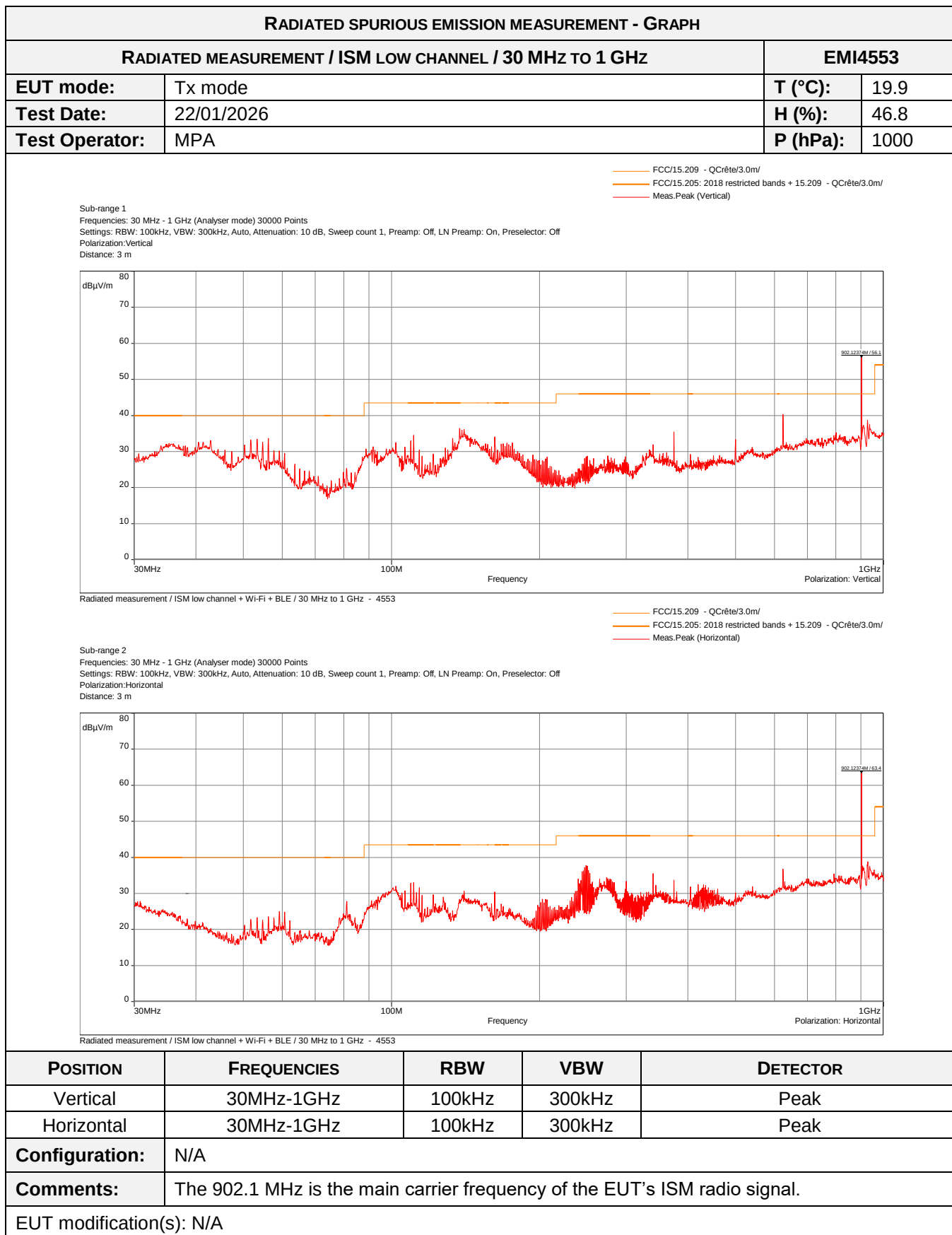
RADIATED SPURIOUS EMISSION MEASUREMENT – TABULATED RESULTS							
RADIATED MEASUREMENT / ISM MID CHANNEL / 1 GHz TO 10 GHz						EMI4580	
FREQUENCY (MHz)	POLARIZATION	AVERAGE LEVEL (dBμV/m)	AVERAGE LIMIT (dBμV/m)	AVERAGE MARGING (dB)	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	PEAK MARGING (dB)
3631.087	Vertical	49.40	54	-4.60	50.48	74	-23.52
3631.387	Horizontal	51.18	54	-2.82	52.04	74	-21.96
Supplementary information: when margin between peak measurements and average limit is >6dB, no average measurements were performed.							

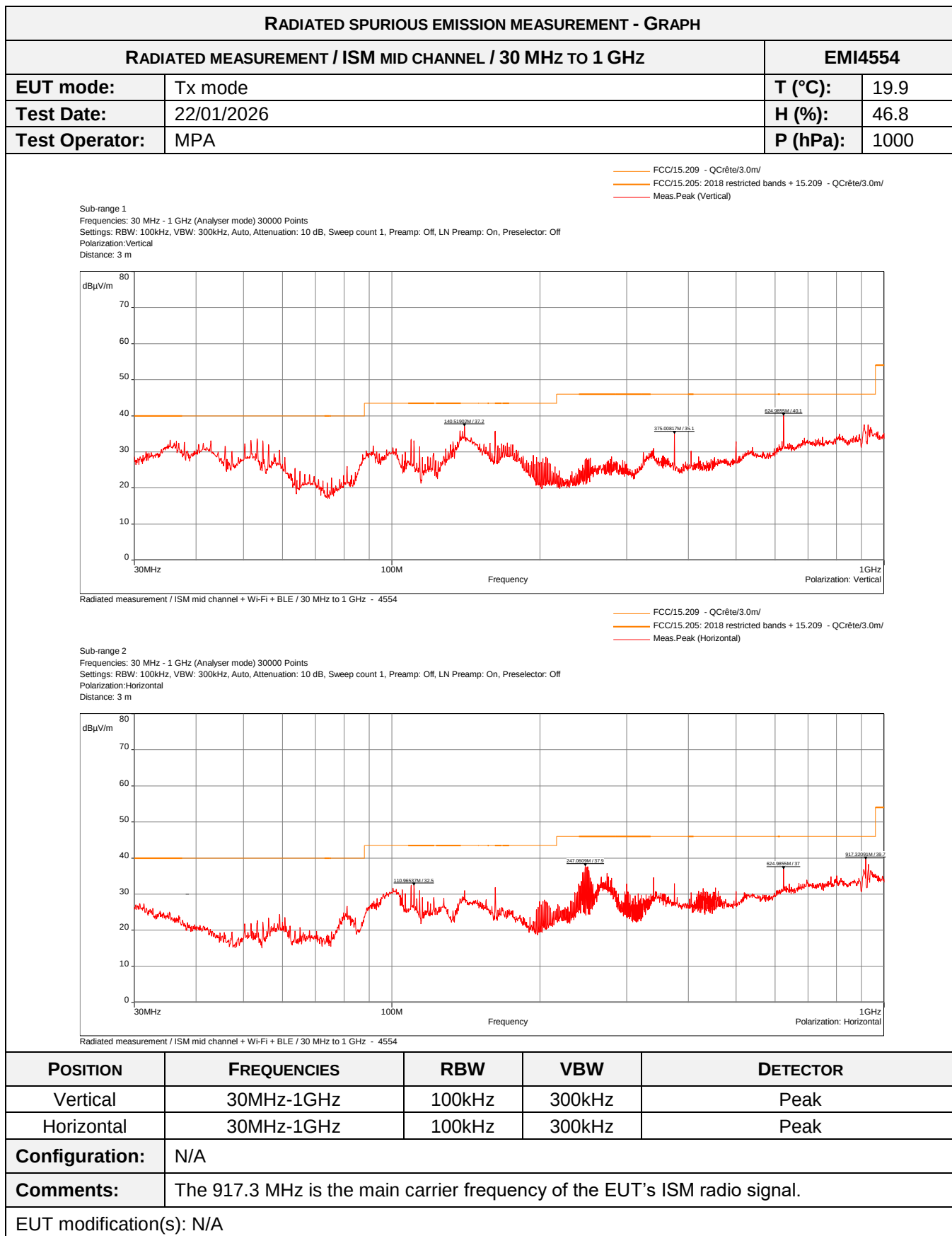
RADIATED SPURIOUS EMISSION MEASUREMENT – TABULATED RESULTS							
RADIATED MEASUREMENT / ISM HIGH CHANNEL / 1 GHz TO 10 GHz						EMI4581	
FREQUENCY (MHz)	POLARIZATION	AVERAGE LEVEL (dBμV/m)	AVERAGE LIMIT (dBμV/m)	AVERAGE MARGING (dB)	PEAK LEVEL (dBμV/m)	PEAK LIMIT (dBμV/m)	PEAK MARGING (dB)
1855.628	Vertical	N/P	54	N/P	41.99	74	-32.01
3631.087	Vertical	48.87	54	-5.13	50.09	74	-23.91
3631.387	Horizontal	50.47	54	-3.53	51.54	74	-22.46
Supplementary information: when margin between peak measurements and average limit is >6dB, no average measurements were performed.							

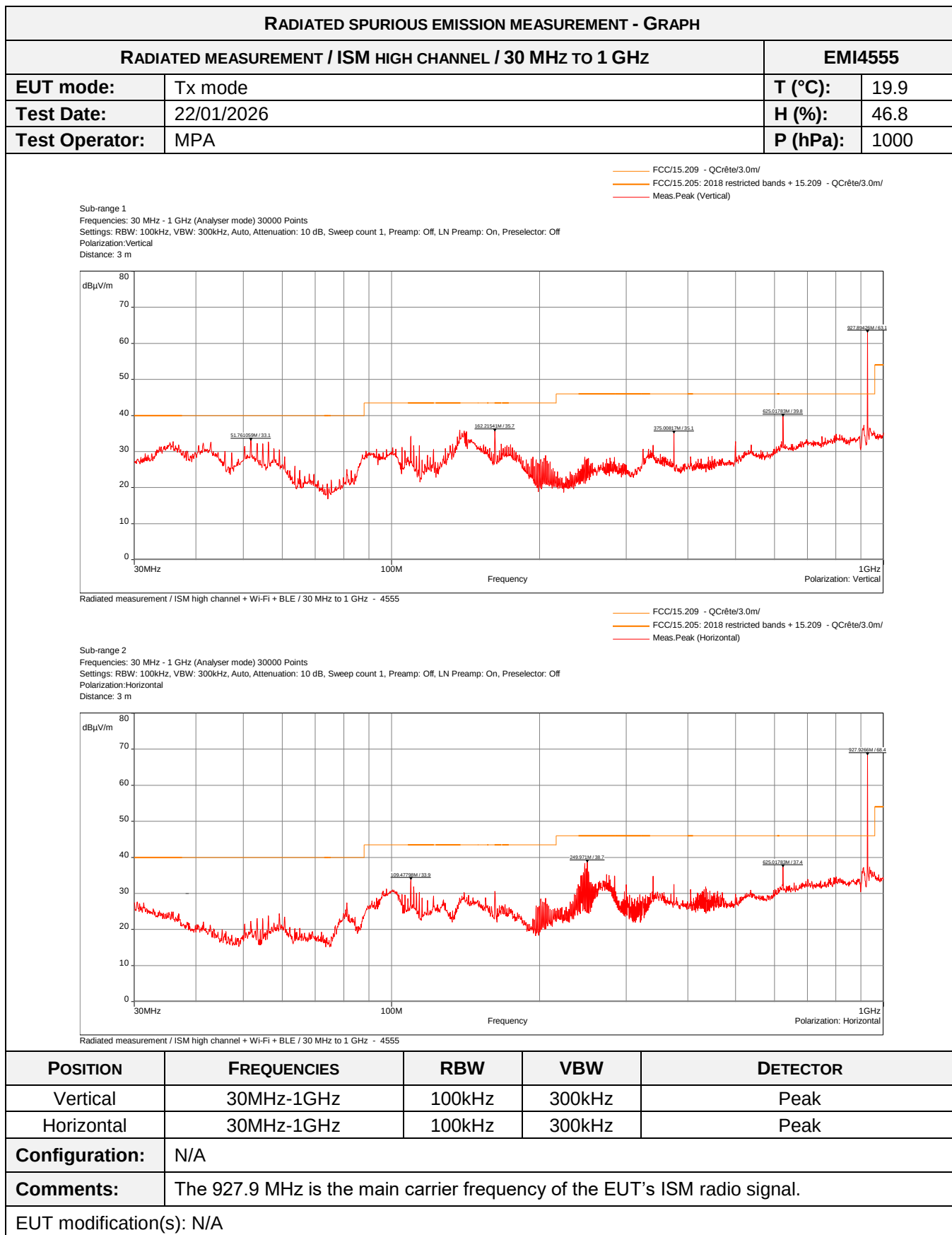


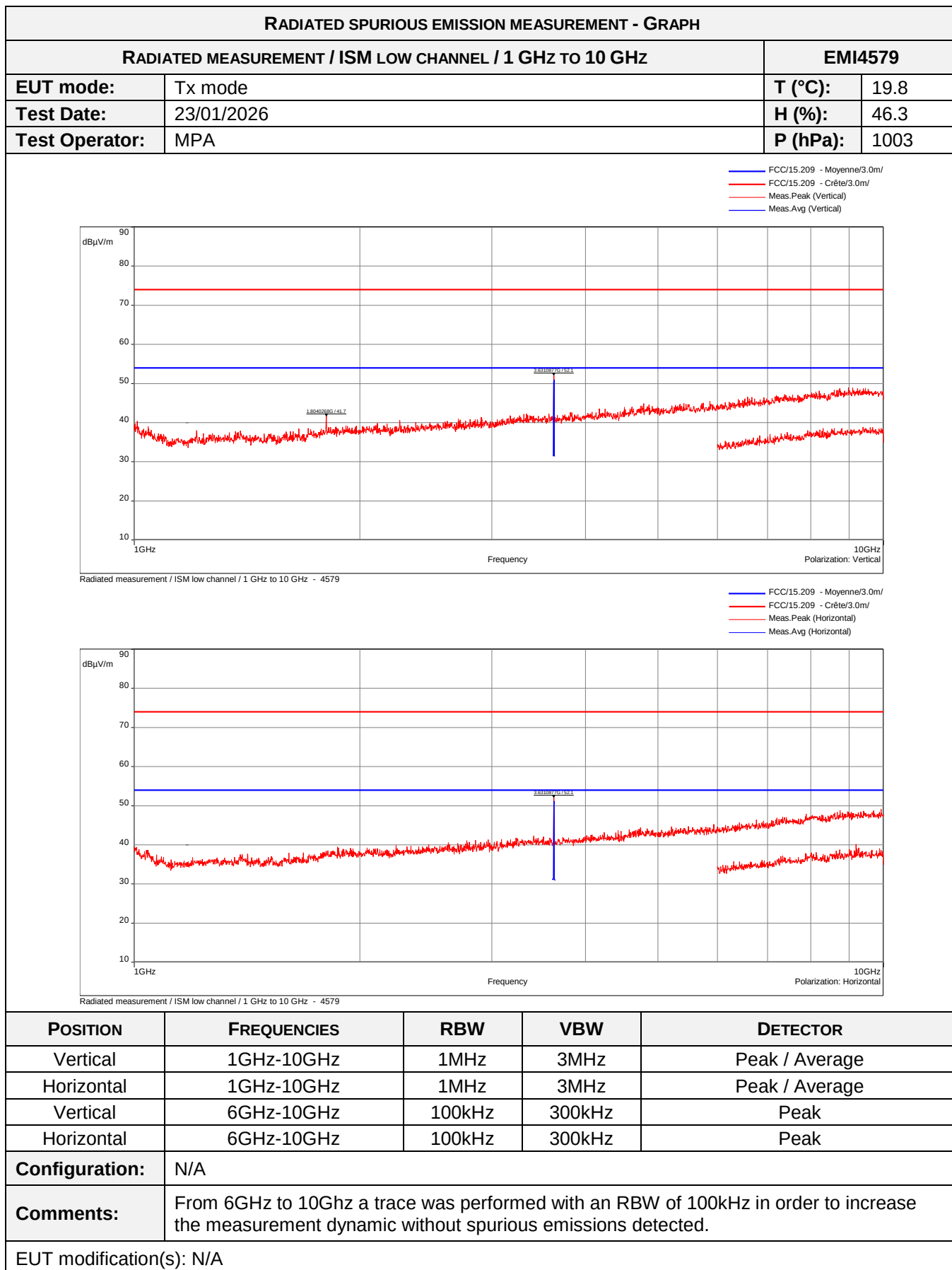


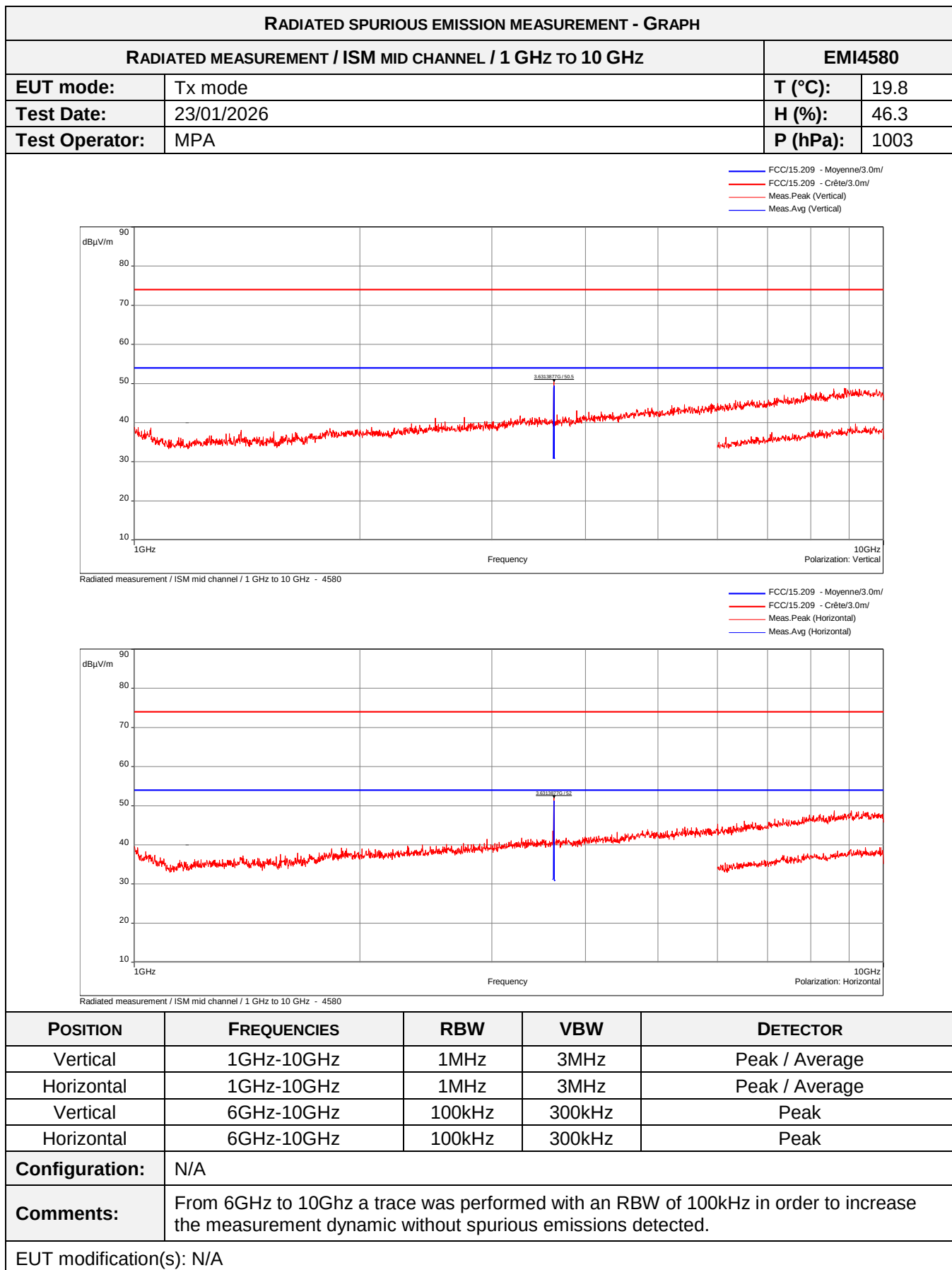


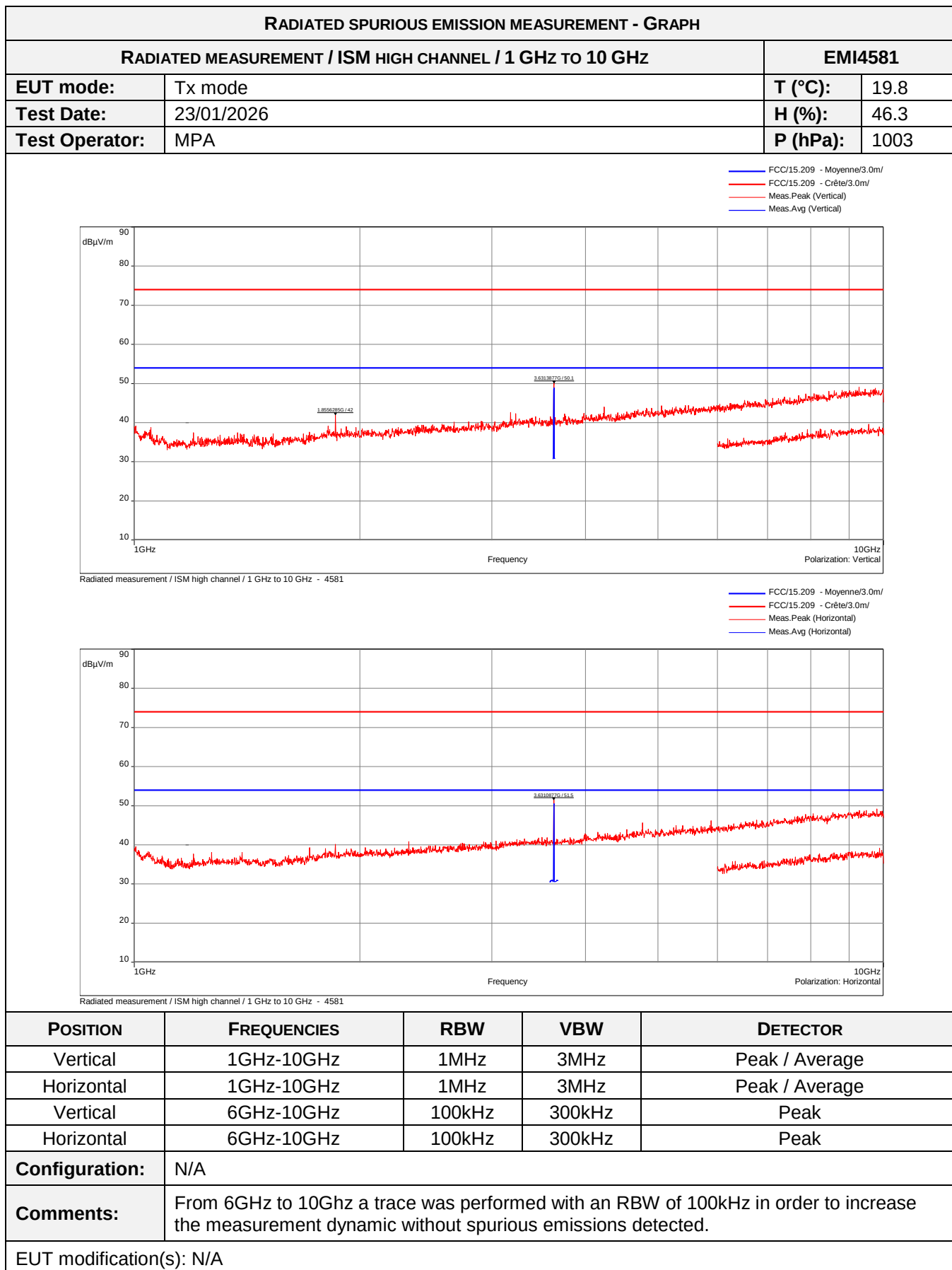












6.3. Maximum peak power of the intentional radiator

Reference standard:	FCC Part 15.249 RSS-210
Test method:	ANSI C63.10: 2020
Test description: b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. For EUT without dedicated or integral antenna, EUT is connected to the measuring receiver via 50Ω attenuator(s). Radiated power limit applies to the maximum measured conducted power value adjusted by the antenna gain and beamforming gain. For EUT with integral or dedicated antenna, measurements are done on a normalized test site. EUT is set on an insulating support at 150 cm above the ground reference plane. Measurement is done on a normalized test site by the substitution method. The test antenna is oriented in the two polarizations (vertical and horizontal), and the product is rotated at 360° in the horizontal plane (See photo(s) for initial position of the EUT(0°)). If applicable the test antenna was raised and lowered through the specified range of height until a maximum signal level is detected. For portable equipments: - For frequencies < 1GHz a research of maximum level is done on 3 axes - For frequencies > 1GHz styrofoam wedges, precut to the 30°, 60°, and 90° angles, are used to support the EUT in the 6 different orientations. Only the highest levels are recorded.	

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
EIRP / ISM low channel	899.6MHz- 904.6MHz	50mV/m (-1.32 dBm)	EMI4657	PASS
EIRP / ISM mid channel	914.75MHz- 919.75MHz	50mV/m (-1.32 dBm)	EMI4658	PASS
EIRP / ISM high channel	925.4MHz- 930.4MHz	50mV/m (-1.32 dBm)	EMI4659	PASS

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	See Graph(s)
Relative Humidity	20 to 75 %	See Graph(s)
Atmospheric pressure	N/A	See Graph(s)
Test method deviation: N/A		
Supplementary information: The intensity of the fundamental limit field was calculated using the formula referenced in ANSI C63.10: 2020.: $\text{EIRP(dBm)} = \text{E(dB}\mu\text{V/m)} - 95.3$		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	ETS lindgren	3142E	14523	08/08/2025	08/10/2028
Attenuator	EMITECH	SUB.V4-H	18112	03/06/2024	03/08/2027
Attenuator	EMITECH	SUB.V4-V	18111	03/06/2024	03/08/2027
Cable	Techniwave		18355	17/08/2023	17/10/2026
Cable	/	N-1m	3625	09/06/2025	09/08/2027
Cable	Techniwave	N-3.5m	18353	11/09/2025	11/11/2027
Receiver	Rohde & Schwarz	FSW43	14830	07/07/2025	07/09/2027
Shielded enclosure	COMTEST	C.V4	18014	05/11/2024	05/01/2028
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H2	12269	18/02/2025	18/04/2027
Thermohygrometer	LUFFT	OPUS 20	17844	05/06/2025	05/08/2026

BAT-EMC software version: V3.18.0.26

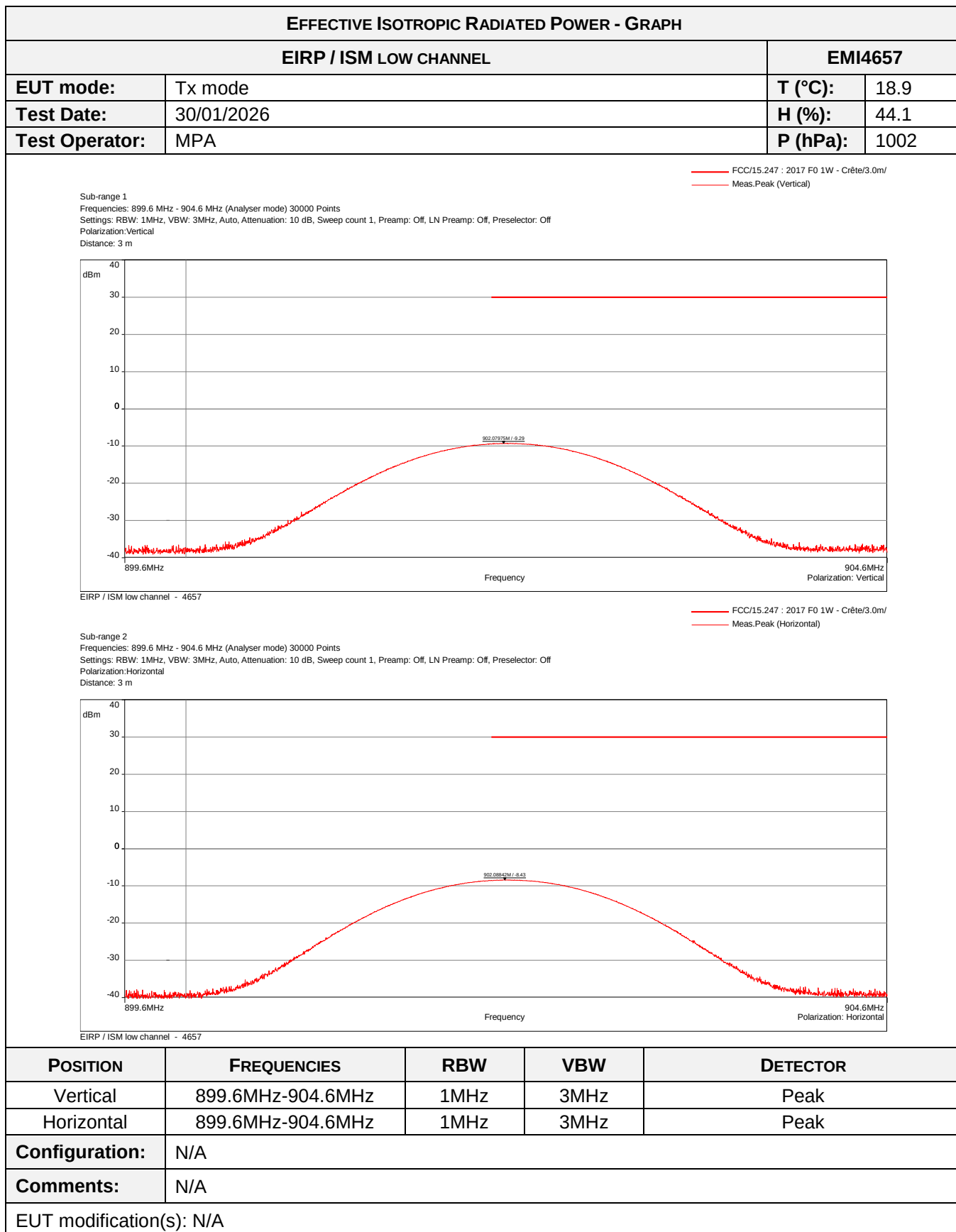
Blank cells = Permanent validity

TEST SETUP PHOTO(S) – EUT POSITION

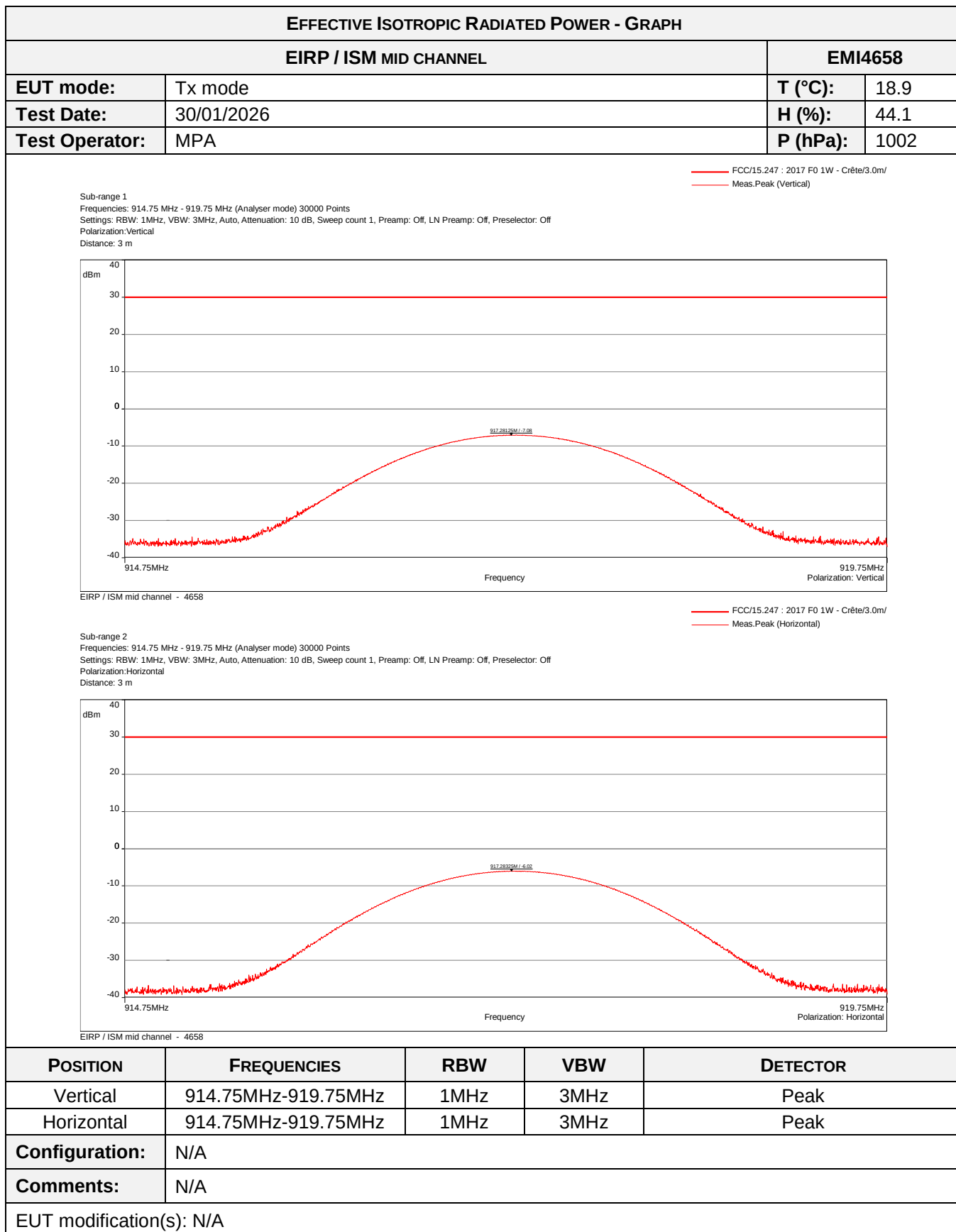


TEST SETUP PHOTO(S)

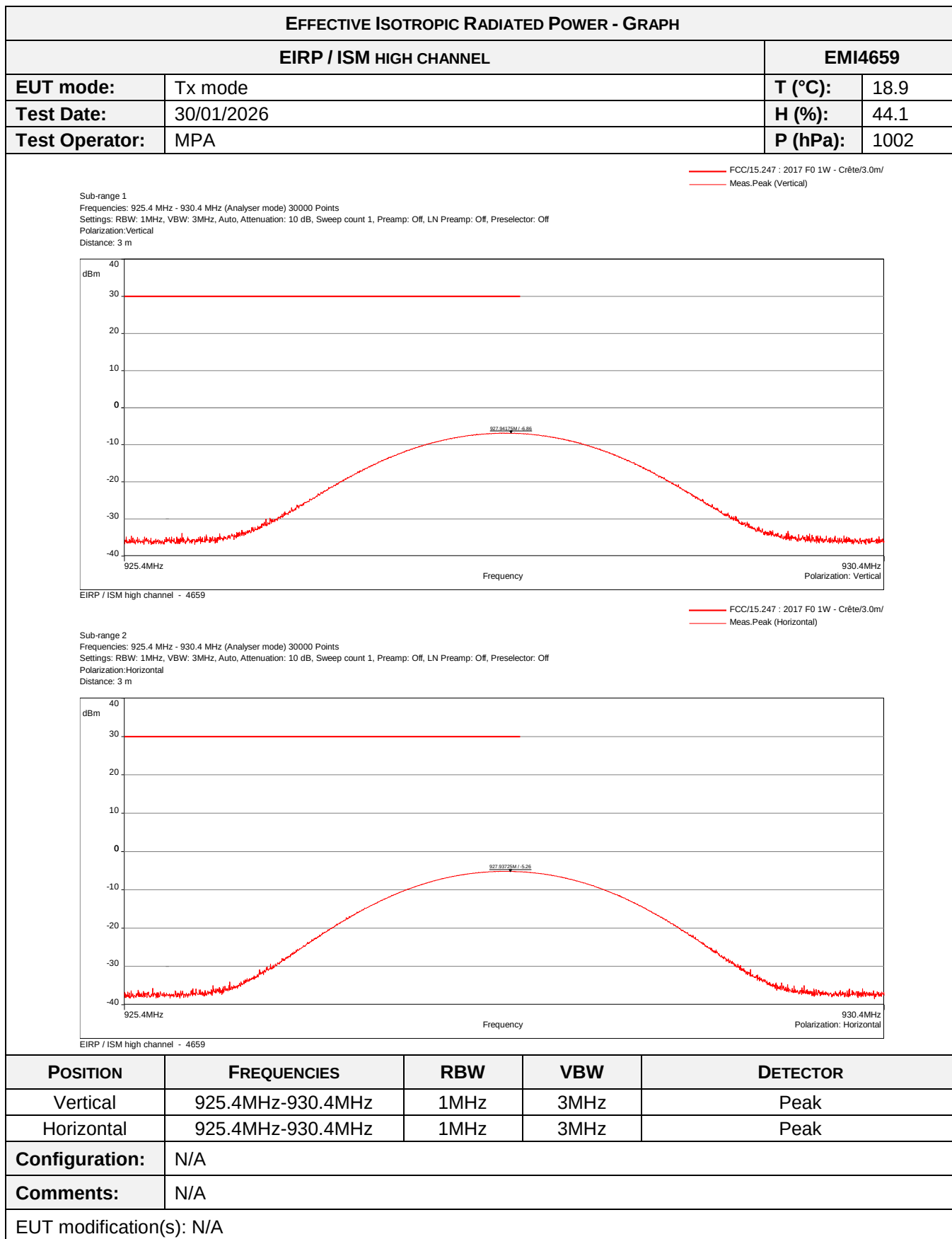




EFFECTIVE ISOTROPIC RADIATED POWER - TABULATED RESULTS			
EIRP / ISM LOW CHANNEL			EMI4657
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)
902.1	Vertical	-9.29	-1.32
902.1	Horizontal	-8.43	-1.32



EFFECTIVE ISOTROPIC RADIATED POWER - TABULATED RESULTS			
EIRP / ISM MID CHANNEL			EMI4658
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)
917.3	Vertical	-7.08	-1.32
917.3	Horizontal	-6.02	-1.32



EFFECTIVE ISOTROPIC RADIATED POWER - TABULATED RESULTS			
EIRP / ISM HIGH CHANNEL			EMI4659
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)
927.9	Vertical	-6.86	-1.32
927.9	Horizontal	-5.26	-1.32

6.4. 99% Occupied Bandwidth

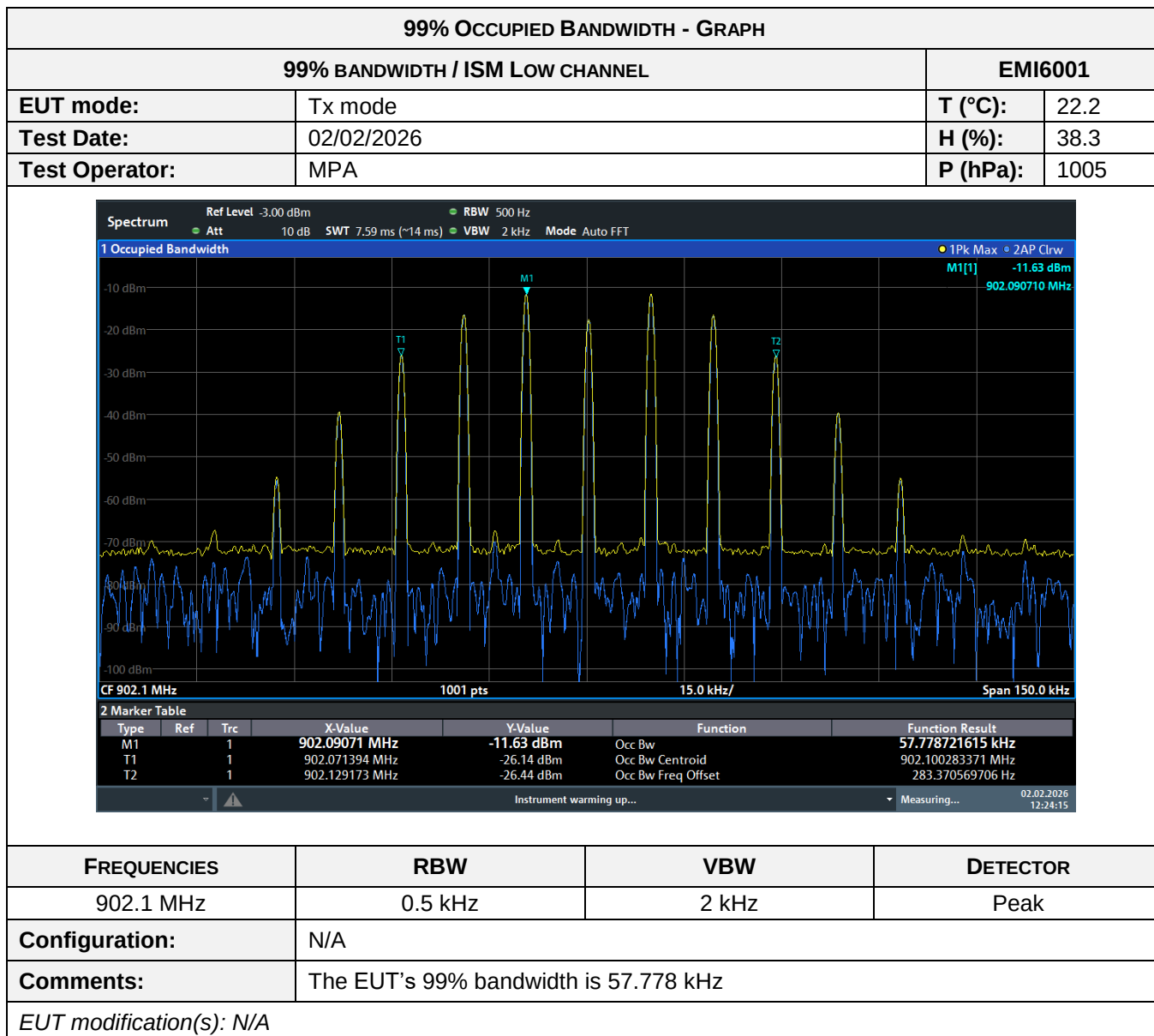
Reference standard:	RSS-GEN
Test method:	ANSI C63.10: 2020
Test description: The occupied bandwidth (OBW) is the Frequency Range in which 99 % of the total mean power of a given emission falls. The residual part of the total power being denoted as β, which, in cases of symmetrical spectra, splits up into $\beta/2$ on each side of the spectrum. Unless otherwise specified, $\beta/2$ is taken as 0,5 %. The maximum occupied bandwidth includes all associated side bands above the appropriate emissions level and the frequency error or drift under extreme test conditions. EUT is connected to the measuring receiver via 50Ω attenuator(s).	

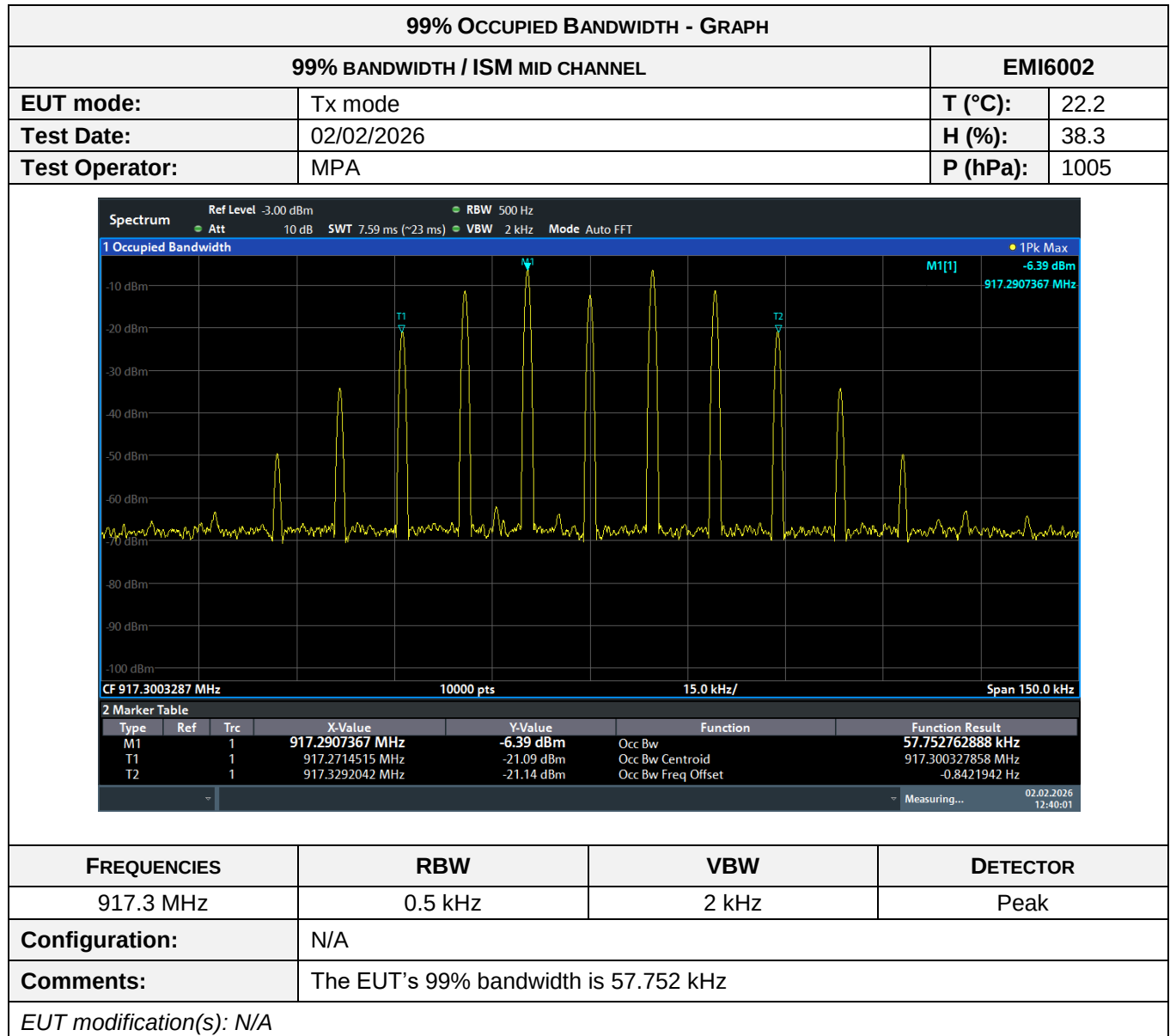
TESTED PARAMETER	RESULT	SEVERITY	RESULT TAB.	VERDICT
99% bandwidth / ISM low channel	57.778 kHz	Within the band	EMI6001	PASS
99% bandwidth / ISM mid channel	57.752 kHz		EMI6002	PASS
99% bandwidth / ISM high channel	57.748 kHz		EMI6003	PASS

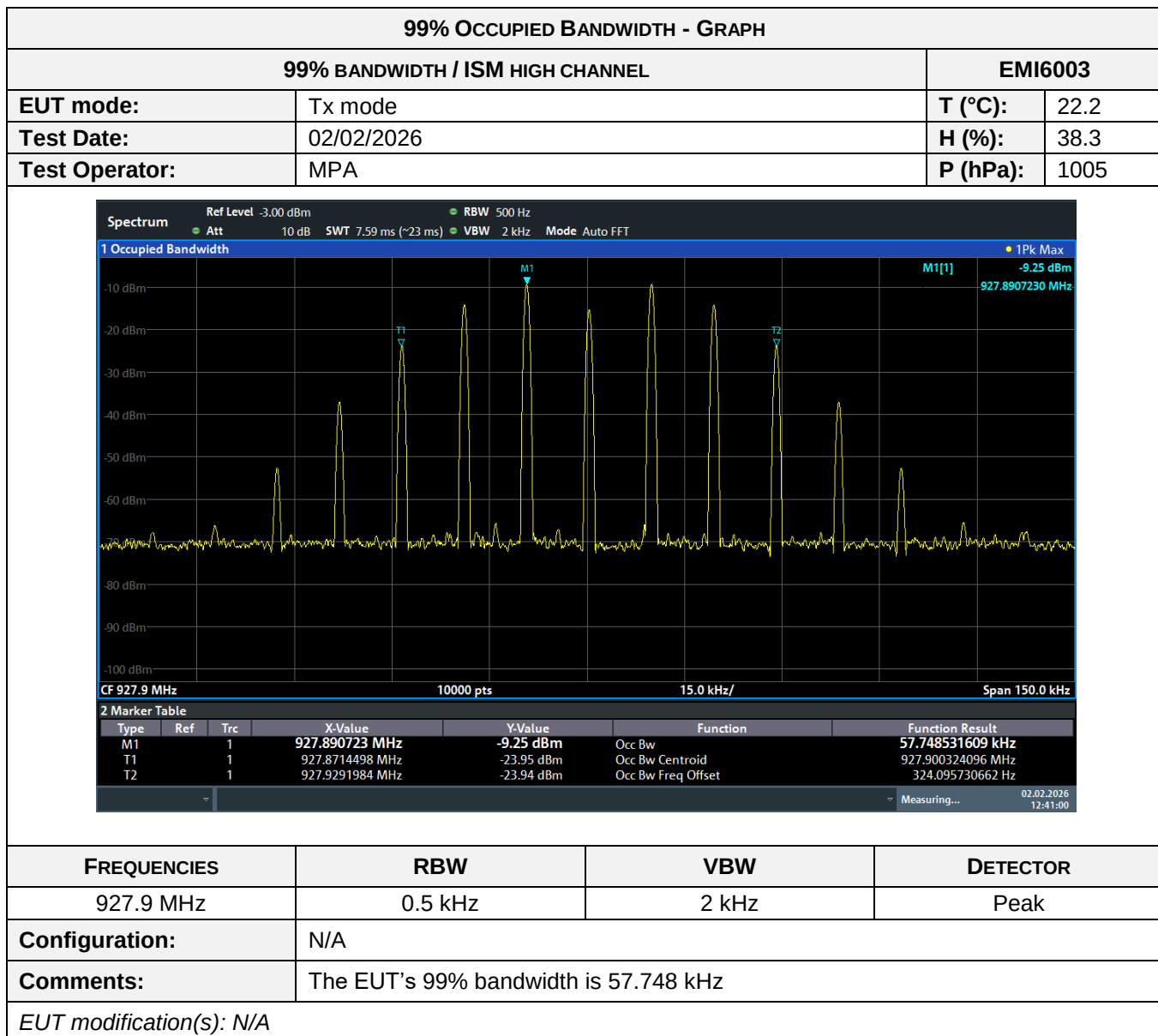
LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	See Graph(es)
Relative Humidity	20 to 75 %	See Graph(es)
Atmospheric pressure	N/A	See Graph(es)
Test method deviation: N/A		
Supplementary information: N/A		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
AC power source	KIKUSUI	PCR 4000L	15322	13/06/2025	13/08/2027
Antenna	EMITECH	3.5 cm	4653		
Cable	MegaPhase	TM18-N1N1-118	12842	15/05/2025	15/07/2027
Spectrum analyzer	Rohde & Schwarz	FPL1003	16027	12/05/2025	12/07/2026
Thermohygrometer	Testo	608-H1	19386	08/03/2024	08/05/2026
Thermohygrometer	LUFFT	OPUS 20	17844	05/06/2025	05/08/2026

Blank cells = Permanent validity







6.5. Frequency Stability

Reference standard:	Fcc part 15.249 RSS-210
Test method:	ANSI C63.10: 2020
General test setup: The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation. EUT is set inside the climatic enclosure. EUT is connected to the measuring receiver via 50Ω attenuator(s).	

TEST CASE	EUT MODE	SEVERITY	RESULT TAB.	VERDICT
ISM / All channels	Tx mode	902MHz-928MHz	EMI5000	PASS

LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	22.5 °C
Relative Humidity	20 to 75 %	51.2 %
Atmospheric pressure	N/A	1012 hPa
Test method deviation: N/A		
Supplementary information: EUT power supply is replaced by a stabilized power supply.		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
AC power source	KIKUSUI	PCR 4000L	15322	13/06/2025	13/08/2027
Antenna	EMITECH	3.5 cm	4653		
Cable	MegaPhase	TM18-N1N1-118	12842	15/05/2025	15/07/2027
Climatic enclosure	CLIMATS	EXCAL 7714-HA	14261	19/09/2025	19/11/2026
Spectrum analyzer	Rohde & Schwarz	FPL1003	16027	12/05/2025	12/07/2026
Thermohygrometer	Testo	608-H1	19386	08/03/2024	08/05/2026
Thermohygrometer	LUFFT	OPUS 20	17844	05/06/2025	05/08/2026
Thermometer contactless	GHM Greisinger	GMH 3710	12968	26/05/2025	26/07/2027

Blank cells = Permanent validity

FREQUENCY STABILITY - TABULATED RESULTS				
ISM / ALL CHANNELS				EMI5000
Test Case	Temperature (°C)	Power supply	Frequency (MHz)	Frequency error (kHz)
Normal conditions	+25	120Vac/60Hz	902.100293	-
			917.300329	
			927.900325	
Extremes voltage tests conditions		102Vac/60Hz	902.100303	+0.010
			917.300329	+0.000
			927.900320	-0.005
		138Vac/60Hz	902.100307	+0.014
			917.300322	-0.007
			927.900320	-0.005
Extremes temperature tests conditions	+10	120Vac/60Hz	902.100240	-0.053
			917.300253	-0.076
			927.900248	-0.077
Extremes temperature tests conditions	+40		902.100380	+0.087
			917.300395	+0.066
			927.900392	+0.067

EUT MODIFICATIONS	OPERATOR	TEST DATE	RESULT TAB.
N/A	MPA	02/02/2026	EMI5000

End of test report