



Test report issued under the responsibility of:
EMITECH MONTPELLIER laboratory
MRA US-EU Designation Number: FR0006
Canadian CAB Identifier: FR0003

RADIO TEST REPORT

FCC 47 CFR Part 15: February 2021

FCC 47 CFR Part 15.247

RSS-247 Issue 2: February 2017

Company: **EDGE TECHNOLOGIES**
Address.....: 735 AVENUE DU LIEUTENANT PARAYRE
13290 AIX EN PROVENCE
FRANCE

Test item description.: **Valve position including wireless transmitter with data measurement capability**
Trade Mark.: EDGE TECHNOLOGIES
Manufacturer.....: EDGE TECHNOLOGIES SAS
Model/Type reference.....: SENSEA915A / SENSEA.VALV including SENSEAIO
FCC ID.....: 2A2T5-SENSEA915A
IC.: 29177-SENSEA915A
Ratings.....: 2.4Vdc to 3.7Vdc

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

Report Reference No.: **RR-EVE-21C250-1A**
Test procedure.: FCC IC Certification
Diffusion.....: Mr LEVEQUE
Applicant's name.: EDGE TECHNOLOGIES SAS
Date of issue.....: January 26, 2023
Total number of pages.....: 52
Revision.: 0
Compiled by.....: Morgan PATEY
Approved by (+ signature).: Olivier HEYER (Laboratory Manager)

Duplication of this test report is only permitted for an integral photographic facsimile. It includes the number of pages referenced here above. 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. EUT MARKING PLATE	5
3.3. EUT GENERAL VIEW	5
3.4. EUT MECHANICAL AND ELECTRICAL DESIGN	6
3.5. EUT INPUT/OUTPUT PORTS	6
3.6. EUT RADIO SPECIFICATIONS	7
4. RESULT SUMMARY	8
5. MEASUREMENT UNCERTAINTY	10
6. RF EXPOSURE	10
7. TEST CONDITIONS AND RESULTS	11
7.1. OCCUPIED BANDWIDTH & 6 dB BANDWIDTH	11
7.2. EQUIVALENT ISOTROPIC RADIATED POWER	18
7.3. POWER SPECTRAL DENSITY	24
7.4. BAND-EDGE COMPLIANCE	28
7.5. RADIATED SPURIOUS EMISSIONS	32

REVISION HISTORY:

Revision	Date	Modified pages	Modifications
0	January 26, 2023	/	Creation

1. GENERAL INFORMATION

This document submits the results of Radio tests performed on the equipment **Valve position SENA.VLV** (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 August 16 th to 18 th of 2021					
APPLICANT'S GENERAL INFORMATIONS:					
Company name : EDGE TECHNOLOGIES Company address : 735 AVENUE DU LIEUTENANT PARAYRE 13290 AIX EN PROVENCE FRANCE Person(s) present during the tests : No representative for company attended the tests. Responsible : Mr LEVEQUE					
GENERAL REMARKS:					
The information in italics 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
OATS	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

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: February 2021

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

FCC 47 CFR Part 15.247

Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

RSS 247 Issue 2: February 2017

Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.

ANSI C 63.4:2014

American National Standard for Methods of measurement of Radio-Noise from low-voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

ANSI C 63.10: 2013

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

KDB 447498 D01

General RF Exposure Guidance V06

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. : Valve position
Model/Type reference..... : SENSEA915A / SENSEA.VALV including SENSEAIO
Trade Mark. : EDGE TECHNOLOGIES
Serial number (S/N)..... : Not communicated
Part number (P/N). : Not communicated
Software version..... : *Not communicated*
Firmware version. : 1.2
Type of sample. : Pre-serial
Function(s)..... : Battery powered sensors family with long range communication ability (Valve position)
Manufacturer name. : EDGE TECHNOLOGIES SAS
Address. : 735 AVENUE DU LIEUTENANT PARAYRE
13290 AIX EN PROVENCE
FRANCE

General product information:

N/A

3.2. EUT Marking plate

EUT didn't have its marking plate during tests

3.3. EUT General view



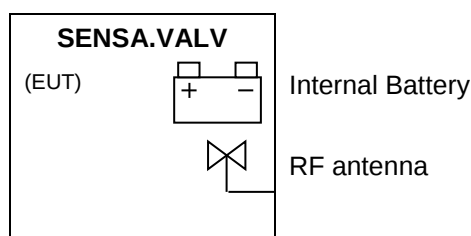
3.4. EUT Mechanical and Electrical Design

Power supply. : 3Vdc
Power supply range..... : 2.4Vdc to 3.7Vdc
Power type..... : Battery powered
Power (W)..... : 0.7
Nominal current (A). : 0.0003
Dimensions (L x W x H) (m). : 0.06 x 0.06 x 0.12
Weight (kg). : 1
Temperature range (°C). : -40 to +85
Ground bounding strap..... : No

Comments:

N/A

3.5. EUT Input/Output ports



PORT	NAME	TYPE	LENGTH	CABLE TYPE	COMMENTS
0	Main frame	N/E	N/A	Metallic & Plastic	N/A
1	Internal Battery	DC	N/A	N/A	Primary 3Vdc LiMno2 battery - SAFT M20 EX SV
2	RF antenna	RF	N/A	N/A	PCB Printed

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

3.6. EUT Radio Specifications

a) GENERAL INFORMATIONS	
According to manufacturer's declarations :	
EUT type.....	<i>Transceiver</i>
Technology	<i>BLE</i>
Environmental profile.....	<i>Data transmissions</i>
Temperature range.....	<i>-40 to +85</i>
Antenna type	<i>Internal (PCB printed)</i>
Antenna Gain.....	<i>0 dBi</i>
Comments: N/A	
b) TRANSMITTER PARAMETERS (Tx)	
Frequency bands.....	<i>2400 MHz to 2483.5 MHz</i>
RF Power.....	<i>2.5 mW</i>
Number of channels / Separation.....	<i>40</i>
Modulation type	<i>GFSK</i>
Duty cycle	<i>100 %</i>
Tested frequency.....	<i>2402 MHz: Low channel (ch.37)</i>
	<i>2440 MHz: Mid channel (ch.38)</i>
	<i>2480 MHz: High channel (ch.39)</i>
c) RECEIVER PARAMETERS (Rx)	
Frequency bands.....	<i>2400 MHz to 2483.5 MHz</i>
Bandwidth.....	<i>Not communicated</i>

4. RESULT SUMMARY

TEST DESIGNATION	SEVERITY	VERDICT	BASIC STANDARDS / COMMENTS
SUBPART A - GENERAL			
Labeling requirements		N/P	15.19 / See certification documents
Information to user		N/P	15.21 / See certification documents
Home-built devices		N/A	15.23
Kits		N/A	15.25
Special Accessories		N/P	15.27 / See certification documents
Inspection by the Commission		N/A	15.29
Measurement standards		PASS	15.31
Test procedure for CPU boards and computer power supplies		N/A	15.32
Frequency range of radiated measurements		PASS	15.33
Measurement detector functions and bandwidths		PASS	15.35
Transition provisions for compliance with the rules		PASS	15.37 / See certification documents
SUBPART B – UNINTENTIONAL RADIATORS			
Equipment authorization			15.101
- Verification		N/A	
- Declaration of Conformity		N/A	
CPU boards and power supplies used in personal computers		N/A	15.102
Exempted device		N/A	15.103
Information to the user		N/P	15.105 / See certification documents
Conducted limits		N/A	15.107 / Battery powered equipment
Radiated emission limits	Class B	PASS	15.109
Antenna power conduction limits for receivers		N/A	15.111
Power line carrier systems		N/A	15.113
TV interface devices, including cable system terminal devices		N/A	15.115
TV broadcast receivers		N/A	15.117
Cable ready consumer electronics equipment		N/A	15.118
Program blocking technology requirements for TV receivers		N/A	15.120
Scanning receivers and frequency converters used with scanning receivers		N/A	15.121
Labeling of digital cable ready products		N/A	15.123
SUBPART C –INTENTIONAL RADIATORS			

TEST DESIGNATION	SEVERITY	VERDICT	BASIC STANDARDS / COMMENTS
Equipment authorization requirement	Class B	PASS	15.201 / Transmitter part is subject to Certification procedure
Certified operating frequency range		N/A	15.202
Antenna requirement		PASS	15.203 / Dedicated integral antenna
External radio frequency power amplifiers and antenna modifications		N/A	15.204
Restricted bands of operation		PASS	15.204
Conducted limits		N/A	15.207 / Battery powered equipment
Radiated emission limits; general requirements		PASS	15.209
Tunnel radio systems		N/A	15.211
Modular transmitters		N/A	15.212
Cable locating equipment		N/A	15.213
Cordless telephones		N/A	15.214
Additional provisions to the general radiated emission limits		PASS	15.215
Operation within the band 902-928MHz, 2400-2483.5MHz and 5725-5850MHz			15.247
- Frequency hopping and digitally modulated		-	a)
- Frequency hopping system		N/A	No FHSS equipment
- Digital modulation system		PASS	a) (2)
- Maximum peak conducted output power		-	b)
- For hopping system in the 2400-2483.5 MHz and 5725-5850 MHz bands		N/A	b) (1)
- For hopping system in the 902-928MHz band		N/A	No FHSS equipment
- For system using digital modulation in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands		PASS	b) (3)
- Operation with directional antenna gains > 6 dBi		N/A	c)
- Out-of-band emissions		PASS	d)
- Power spectral density conducted		PASS	e)
- Hybrid system		N/A	f)
- Frequency hopping additional requirements		N/A	No FHSS equipment
- Frequency hopping intelligence		N/A	No FHSS equipment
- RF exposure compliance		PASS	i)

Sample subject to the test complies 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 account of uncertainty associated with the results.

Opinion(s) and interpretation(s): 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		
Power spectral density	$\pm 2.3\text{dB}$	$\pm 3 \text{ dB}$
Occupied bandwidth		
RF power	$\pm 3.8 \%$	$\pm 5 \%$
Conducted emission (spurious)		
$f \leq 1 \text{ GHz}$	$\pm 0.8 \text{ dB}$	$\pm 3 \text{ dB}$
1 GHz - 12.75 GHz	$\pm 1.6 \text{ dB}$	
Radiated emission (ERP / EIRP)		
$f \leq 62.5 \text{ MHz}$	$\pm 5.1 \text{ dB}$	$\pm 6 \text{ dB}$
62.5 MHz - 1 GHz	$\pm 5.1 \text{ dB}$	$\pm 6 \text{ dB}$
1 GHz - 18 GHz	$\pm 5.2 \text{ dB}$	$\pm 6 \text{ dB}$
18 GHz – 26 GHz	$\pm 5.1 \text{ dB}$	$\pm 6 \text{ dB}$
26 GHz – 40 GHz	$\pm 5.4 \text{ dB}$	$\pm 6 \text{ dB}$
Radiated emission (magnetic field)		
9kHz – 30MHz	$\pm 3 \text{ dB}$	$\pm 6 \text{ dB}$
Supply voltages	$\pm 3 \%$	$\pm 3 \%$
Temperature	$\pm 1 \text{ }^{\circ}\text{C}$	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5 \%$	$\pm 5 \%$
Time / Duty cycle	$\pm 4.4 \%$	$\pm 5 \%$
Adaptivity	$\pm 2.9 \text{ dB}$	/
Conducted emission (FCC)		
(Artificial Mains Network) 150kHz – 30MHz	$\pm 3.4 \text{ dB}$	$\pm 3.4 \text{ dB}$
Radiated emission (electric field for FCC standard)		
9kHz – 30MHz	$\pm 2.7 \text{ dB}$	/
30MHz – 1GHz	$\pm 5.0 \text{ dB}$	/
1GHz – 18GHz	$\pm 5.6 \text{ dB}$	/
18GHz – 26GHz	$\pm 5.7 \text{ dB}$	/
26GHz – 40GHz	$\pm 5.7 \text{ dB}$	/

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

6. RF EXPOSURE

Maximum EIRP = -9.69dBm (0.107 mW) at 2440MHz (see §7.2 of this document)

In accordance with KDB 447498 D01 General RF Exposure Guidance v06:

$$\text{PSD} = \text{EIRP} / (4 * \pi * R^2) = 1.06 / (4 * \pi * (20 \text{ cm})^2) = 0.00002 \text{ mW/cm}^2$$

$$\text{Limit} = 1 \text{ mW/cm}^2$$

In accordance with RSS-102, Issue 5, Section 2.5.1., as EIRP is lower than 4.25 mW at 2404 MHz, SAR exemption for ISED can be considered for a distance $\leq 5\text{cm}$.

7. TEST CONDITIONS AND RESULTS

7.1. Occupied Bandwidth & 6 dB Bandwidth

Reference standard:	FCC part 15 Radio part 15.247 and RSS 247
Test method:	ANSI C63.10 : 2013
Test description: a) (2): Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz. 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 50 Ω attenuator(s). Tests are done in max-hold mode in order to capture all channels.	

TESTED PARAMETER	RESULT	SEVERITY	RESULT TAB.	VERDICT
6 dB bandwidth / Low channel	696.80 kHz	> 500 kHz	EMI5990	PASS
6 dB bandwidth / Mid channel	711.00 kHz	> 500 kHz	EMI5991	PASS
6 dB bandwidth / High channel	690.75 kHz	> 500 kHz	EMI5992	PASS
OBW / Low channel	1.047 MHz	> 500 kHz	EMI5993	PASS
OBW / Mid channel	1.051 MHz	> 500 kHz	EMI5994	PASS
OBW / High channel	1.074 MHz	> 500 kHz	EMI5995	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
Antenna	ETS-Lindgren	3117	5456	24/07/2019	24/09/2022
Attenuator	EMITECH	SUB.V2-H	14495	13/01/2021	13/03/2022
Attenuator	EMITECH	SUB.V2-V	14496	13/01/2021	13/03/2022
Cable	SUCOFLEX	N-3m	14378	25/06/2019	25/08/2021
Cable	SUCOFLEX	N-5,5m	14381	25/06/2019	25/08/2021
Cable	Huber + Suhner	SF102K	16042	24/03/2021	24/05/2023
Converter		2.15	9988		
Receiver	Rohde & Schwarz	FSW43	14830	29/07/2020	29/09/2021
Shielded enclosure	RAY PROOF	C.V2	1423	04/10/2019	04/12/2022
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H1	7562	09/06/2021	09/08/2023
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

6 dB BANDWIDTH - GRAPH																																
LOW CHANNEL			EMI5990																													
EUT mode:	Tx mode		T (°C):	24.1																												
Test Date:	17/08/2021		H (%):	38.4																												
Test Operator:	MPA		P (hPa):	1007																												
MultiView Spectrum Ref Level 74.00 dBµV Att 0 dB SWT 15 ms RBW 100 kHz VBW 300 kHz Mode Sweep 1 Frequency Sweep 70 dBµV 60 dBµV 50 dBµV 40 dBµV 30 dBµV 20 dBµV 10 dBµV 0 dBµV -10 dBµV -20 dBµV CF 2.402 GHz 15000 pts 300.0 kHz/ Span 3.0 MHz 2 Marker Table <table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td></td><td>1</td><td>2.4020869 GHz</td><td>46.31 dBµV</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.4017397 GHz</td><td>40.31 dBµV</td><td></td><td></td></tr><tr><td>D3</td><td>M2</td><td>1</td><td>696.8 kHz</td><td>0.05 dB</td><td></td><td></td></tr></tbody></table> Aborted 17.08.2021 09:30:46					Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1		1	2.4020869 GHz	46.31 dBµV			M2		1	2.4017397 GHz	40.31 dBµV			D3	M2	1	696.8 kHz	0.05 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																										
M1		1	2.4020869 GHz	46.31 dBµV																												
M2		1	2.4017397 GHz	40.31 dBµV																												
D3	M2	1	696.8 kHz	0.05 dB																												
Results:	The system has an OBW of 696.80 kHz																															
EUT modification(s): N/A																																

6 dB BANDWIDTH - GRAPH			
MID CHANNEL		EMI5991	
EUT mode:	Tx mode	T (°C):	24.1
Test Date:	17/08/2021	H (%):	38.4
Test Operator:	MPA	P (hPa):	1007

MultiView Spectrum

Ref Level 67.00 dBµV RBW 100 kHz
Att 0 dB SWT 10 ms VBW 300 kHz Mode Sweep

1 Frequency Sweep

60 dBµV
50 dBµV
40 dBµV
30 dBµV
20 dBµV
10 dBµV
0 dBµV
-10 dBµV
-20 dBµV
-30 dBµV

CF 2.44 GHz10000 pts300.0 kHz/Span 3.0 MHz

1Pk Max

D3[1]0.01 dB

M1[1]49.45 dBµV

2.440090450 GHz

H1 43.450 dBµV

M2

M1

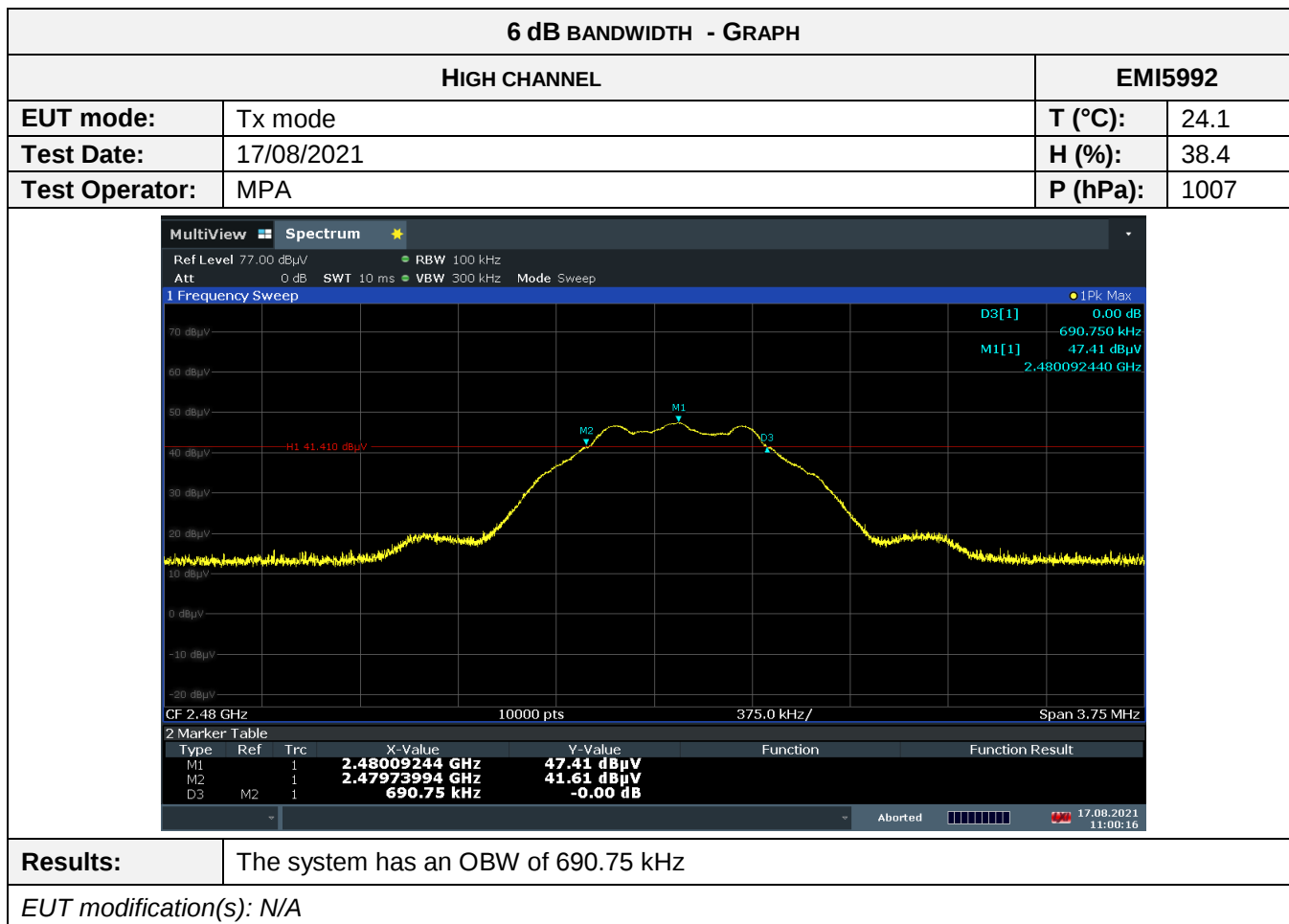
D3

2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1	1	2.44009045 GHz	49.45 dBµV		
M2	1	1	2.43973435 GHz	43.46 dBµV		
D3	M2	1	711.0 kHz	0.01 dB		

Aborted17.08.2021 10:00:52

Results:	The system has an OBW of 711.00 kHz
EUT modification(s): N/A	



OCCUPIED BANDWIDTH - GRAPH			
LOW CHANNEL		EMI5993	
EUT mode:	Tx mode	T (°C):	24.1
Test Date:	17/08/2021	H (%):	38.4
Test Operator:	MPA	P (hPa):	1007
MultiView Spectrum Ref Level -50.32 dBm Att 0 dB SWT 10 ms RBW 50 kHz VBW 200 kHz Mode Sweep 1 Occupied Bandwidth			

OCCUPIED BANDWIDTH - GRAPH			
MID CHANNEL		EMI5994	
EUT mode:	Tx mode	T (°C):	24.1
Test Date:	17/08/2021	H (%):	38.4
Test Operator:	MPA	P (hPa):	1007

MultiView

Spectrum

Ref Level -46.30 dBm

RBW 50 kHz

Att 0 dB

SWT 10 ms

VBW 200 kHz

Mode Sweep

PA

1 Occupied Bandwidth

-50 dBm

-60 dBm

-70 dBm

-80 dBm

-90 dBm

-100 dBm

-110 dBm

-120 dBm

-130 dBm

-140 dBm

CF 2.44 GHz

10000 pts

375.0 kHz/

Span 3.75 MHz

M1

T1

T2

M1[1]

-57.66 dBm

2.440084560 GHz

2 Marker Table

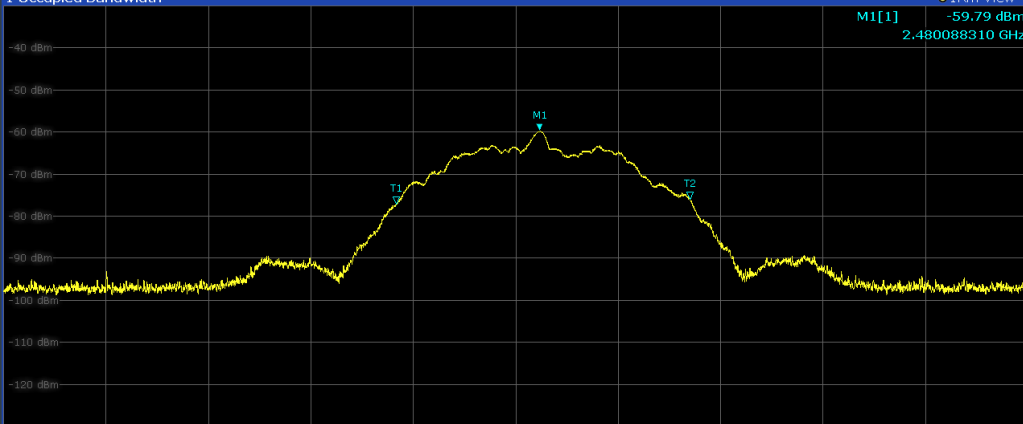
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		2.44008456 GHz	-57.66 dBm	Occ Bw	1.051717481 MHz
T1	1		2.439574403 GHz	-74.00 dBm	Occ Bw Centroid	2.440100262 GHz
T2	1		2.44062612 GHz	-73.24 dBm	Occ Bw Freq Offset	100.26174641 kHz

Measuring...

17.08.2021

10:09:15

Results:	The system has an OBW of 1.051 MHz
EUT modification(s): N/A	

OCCUPIED BANDWIDTH - GRAPH																															
HIGH CHANNEL		EMI5995																													
EUT mode:	Tx mode	T (°C):	24.1																												
Test Date:	17/08/2021	H (%):	38.4																												
Test Operator:	MPA	P (hPa):	1007																												
MultiView Spectrum Ref Level -30.00 dBm RBW 50 kHz Att 0 dB SWT 10 ms VBW 200 kHz Mode Sweep 1 Occupied Bandwidth M1[1] -59.79 dBm 2.480088310 GHz  CF 2.48 GHz10000 pts375.0 kHz/Span 3.75 MHz 2 Marker Table <table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.48008831 GHz</td><td>-59.79 dBm</td><td>Occ Bw</td><td>1.074193328 MHz</td></tr><tr><td>T1</td><td>1</td><td></td><td>2.479562228 GHz</td><td>-77.22 dBm</td><td>Occ Bw Centroid</td><td>2.480099325 GHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>2.480636421 GHz</td><td>-76.03 dBm</td><td>Occ Bw Freq Offset</td><td>99.324775598 kHz</td></tr></tbody></table> Measuring... 17.08.2021 10:58:12				Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.48008831 GHz	-59.79 dBm	Occ Bw	1.074193328 MHz	T1	1		2.479562228 GHz	-77.22 dBm	Occ Bw Centroid	2.480099325 GHz	T2	1		2.480636421 GHz	-76.03 dBm	Occ Bw Freq Offset	99.324775598 kHz
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																									
M1	1		2.48008831 GHz	-59.79 dBm	Occ Bw	1.074193328 MHz																									
T1	1		2.479562228 GHz	-77.22 dBm	Occ Bw Centroid	2.480099325 GHz																									
T2	1		2.480636421 GHz	-76.03 dBm	Occ Bw Freq Offset	99.324775598 kHz																									
Results:	The system has an OBW of 1.074 MHz																														
EUT modification(s): N/A																															

7.2. Equivalent isotropic radiated power

Reference standard:	FCC 47 CFR PART 15.247 and RSS 247
Test method:	ANSI C63.10 : 2013
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. Only the highest levels are recorded. The measurement is performed in radiated mode because the product antenna is a printed circuit type antenna. The results are directly compared to the conducted limits.	

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
RF output power / Low channel / All positions	2.3995GHz-2.4045GHz	1W (30dBm)	EMI4557	PASS
RF output power / Mid channel / All positions	2.4375GHz-2.4425GHz	1W (30dBm)	EMI4558	PASS
RF output power / High channel / All positions	2.4775GHz-2.4825GHz	1W (30dBm)	EMI4556	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: N/A		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	ETS-Lindgren	3117	5456	24/07/2019	24/09/2022
Attenuator	EMITECH	SUB.V2-H	14495	13/01/2021	13/03/2022
Attenuator	EMITECH	SUB.V2-V	14496	13/01/2021	13/03/2022
Cable	SUCOFLEX	N-3m	14378	25/06/2019	25/08/2021
Cable	SUCOFLEX	N-5,5m	14381	25/06/2019	25/08/2021
Cable	Huber + Suhner	SF102K	16042	24/03/2021	24/05/2023
Receiver	Rohde & Schwarz	FSW43	14830	29/07/2020	29/09/2021
Shielded enclosure	RAY PROOF	C.V2	1423	04/10/2019	04/12/2022
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H1	7562	09/06/2021	09/08/2023
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

TEST SETUP PHOTO(S) - EQUIVALENT ISOTROPIC RADIATED POWER / POSITION 1



TEST SETUP PHOTO(S) - EQUIVALENT ISOTROPIC RADIATED POWER / POSITION 2

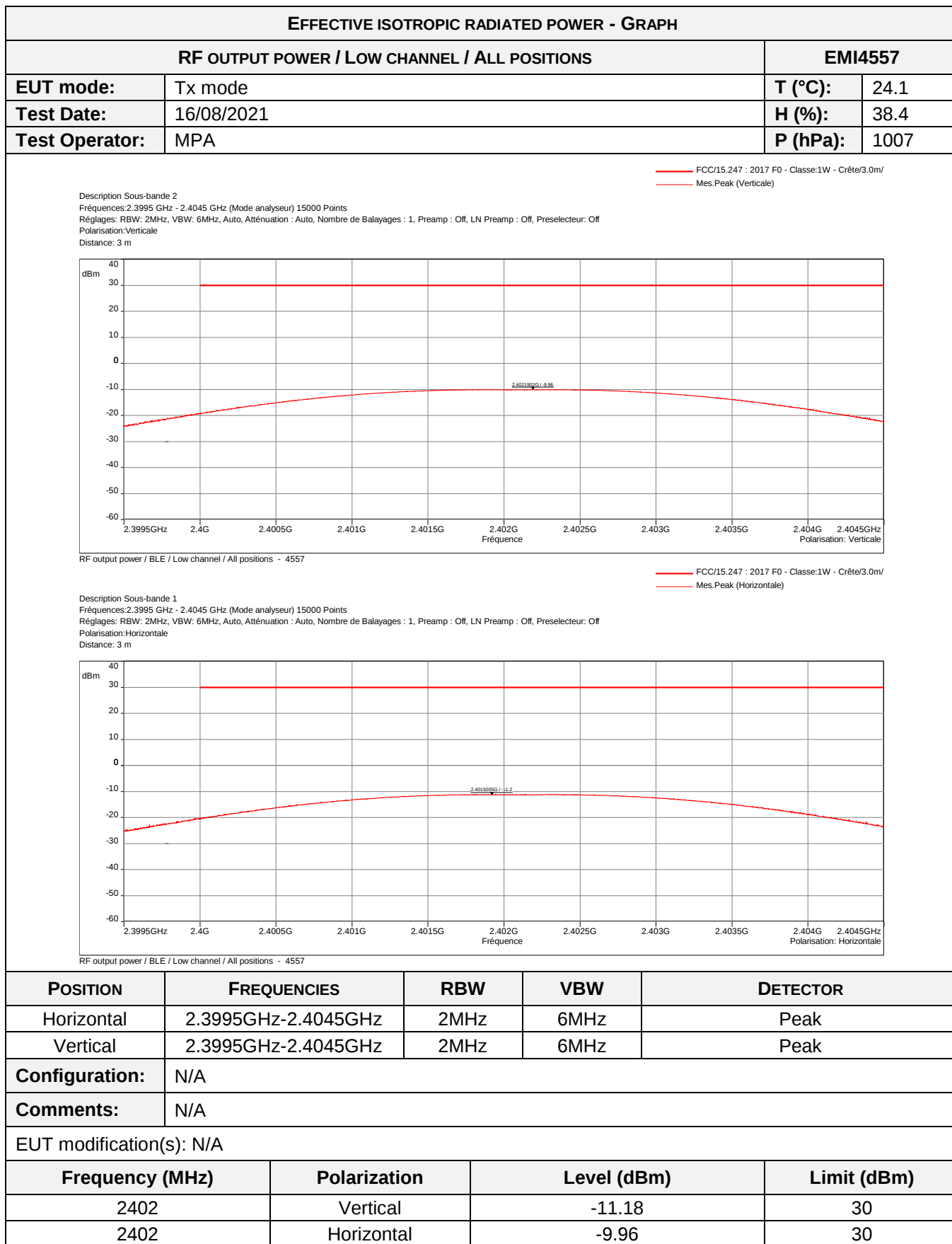


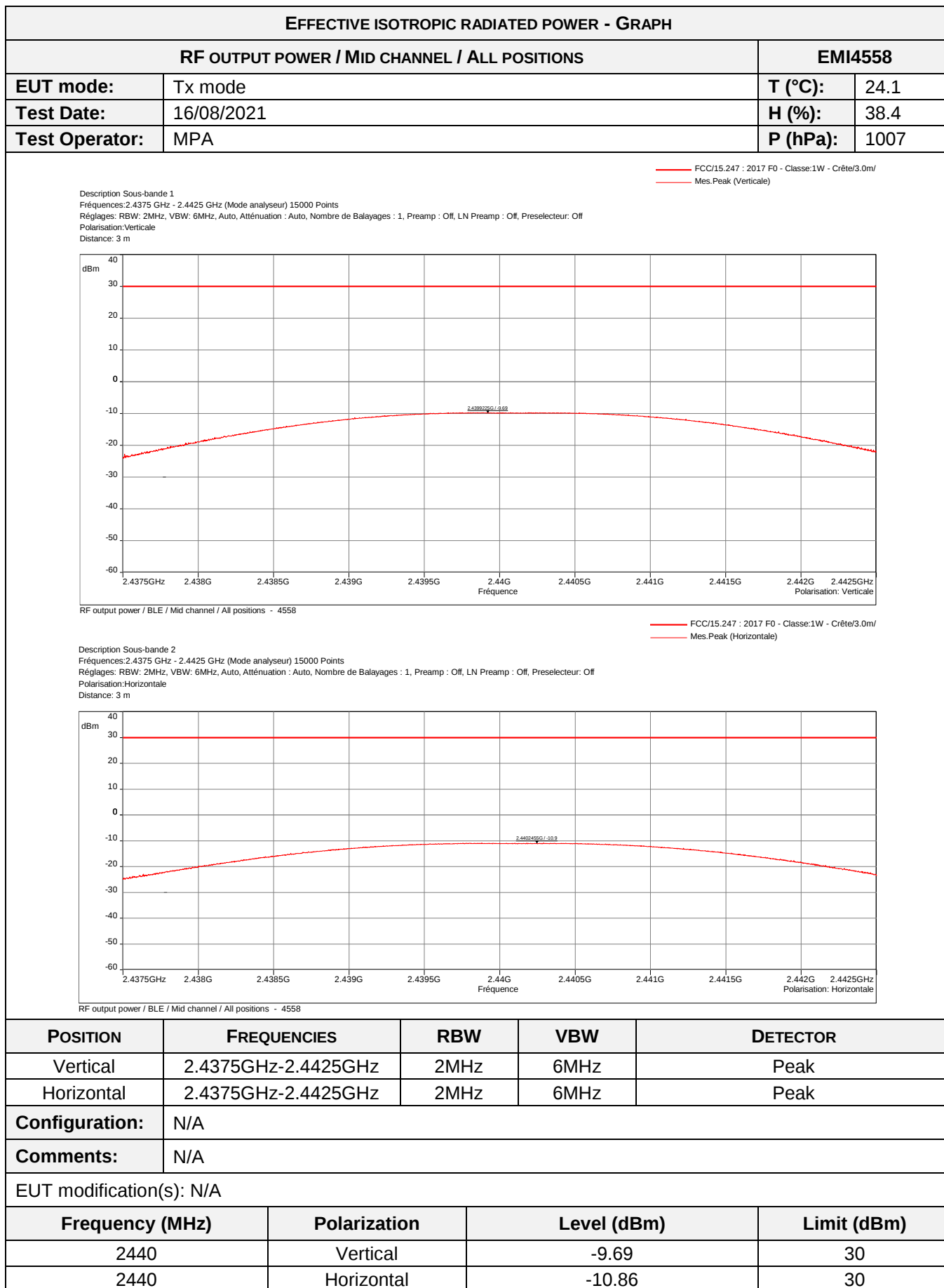
TEST SETUP PHOTO(S) - EQUIVALENT ISOTROPIC RADIATED POWER / POSITION 3

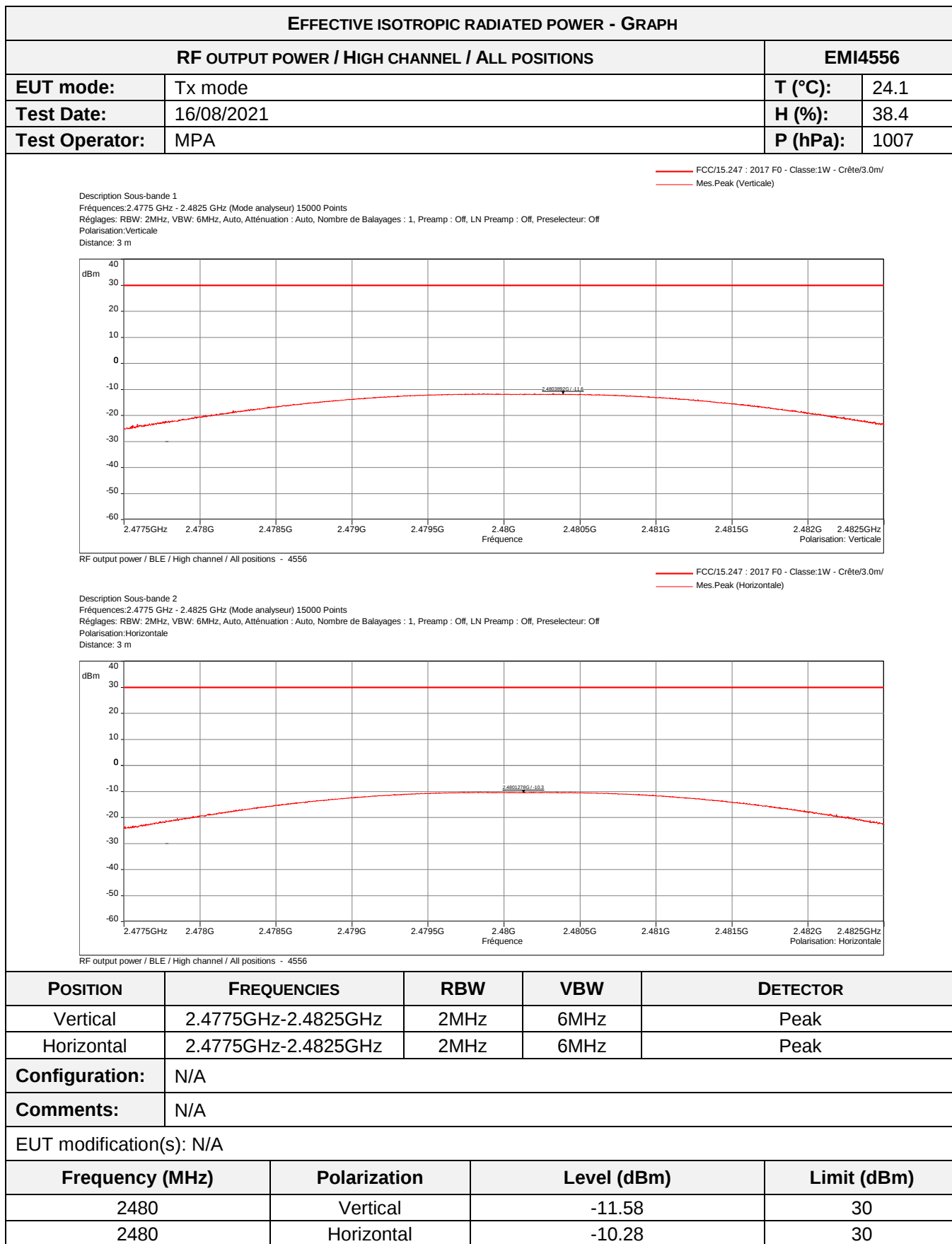


TEST SETUP PHOTO(S) - EQUIVALENT ISOTROPIC RADIATED POWER









7.3. Power spectral density

Reference standard:	FCC 47 CFR PART 15.247 and RSS 247
Test method:	ANSI C63.10: 2013
Test description: e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. EUT is connected to the measuring receiver via 50Ω attenuator(s). Only the highest levels are recorded.	

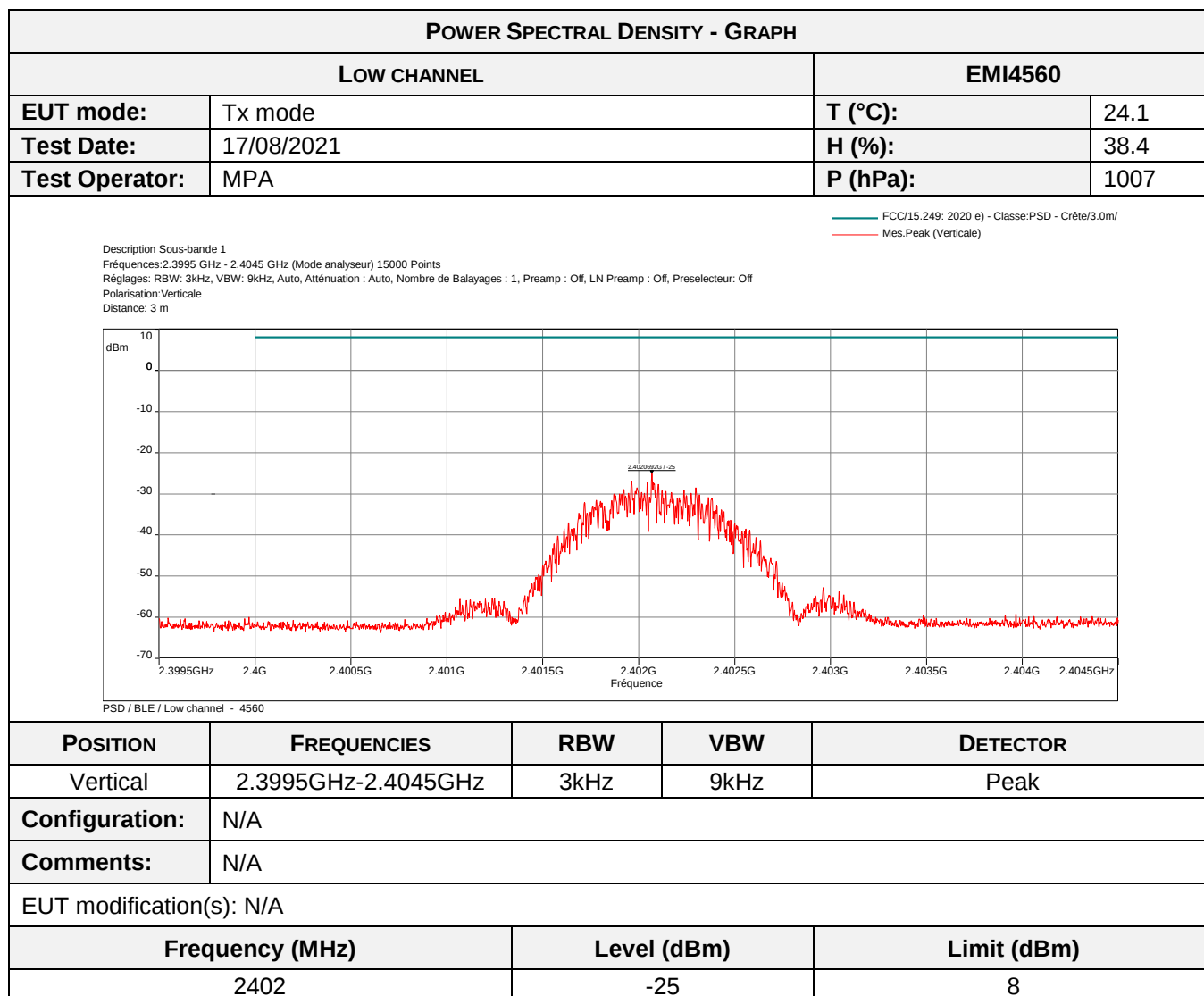
TESTED CHANNEL	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
Low channel	2.3995GHz-2.4045GHz	8dBm/3kHz	EMI4560	PASS
Mid channel	2.4375GHz-2.4425GHz	8dBm/3kHz	EMI4561	PASS
High channel	2.4775GHz-2.4825GHz	8dBm/3kHz	EMI4562	PASS

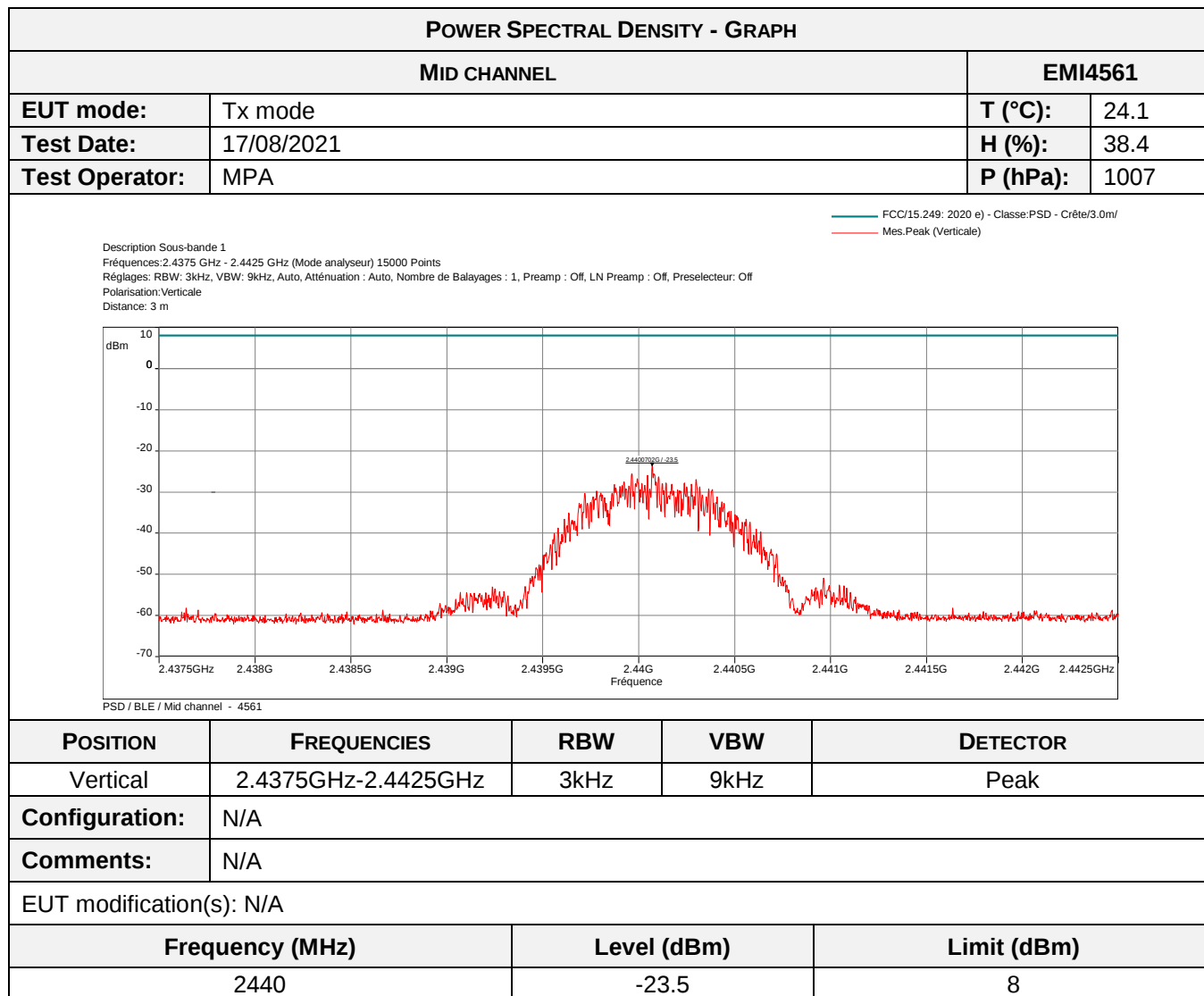
LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	See Graph(s)
Relative Humidity	20 to 75 %	See Graph(s)
Atmospheric pressure	N/A	See Graph(s)
Test method deviation: N/A		
Supplementary information: Tests are done in worst case of position/polarization/azimuth		

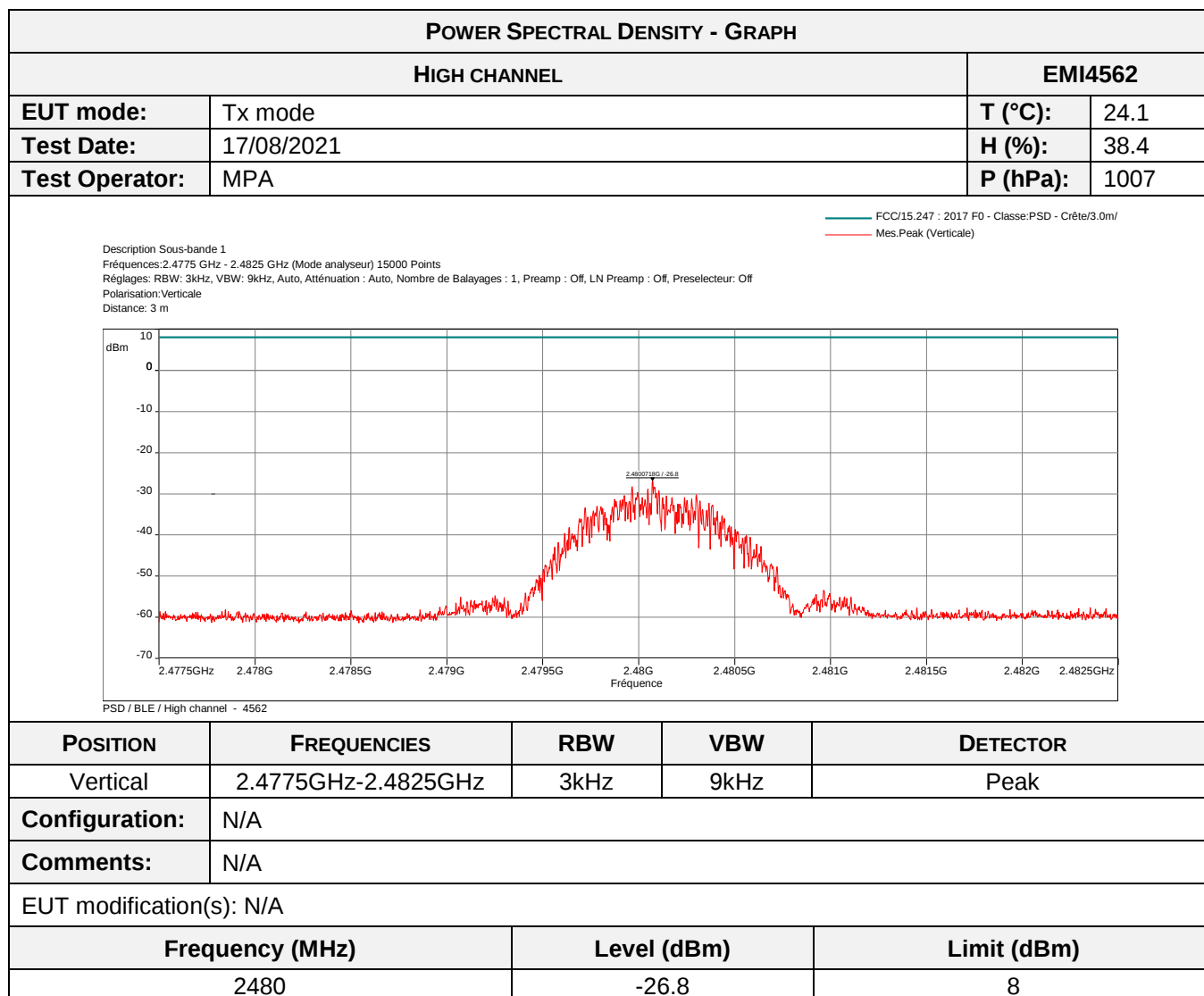
TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	ETS-Lindgren	3117	5456	24/07/2019	24/09/2022
Attenuator	EMITECH	SUB.V2-H	14495	13/01/2021	13/03/2022
Attenuator	EMITECH	SUB.V2-V	14496	13/01/2021	13/03/2022
Cable	SUCOFLEX	N-3m	14378	25/06/2019	25/08/2021
Cable	SUCOFLEX	N-5,5m	14381	25/06/2019	25/08/2021
Cable	Huber + Suhner	SF102K	16042	24/03/2021	24/05/2023
Converter		2.15	9988		
Receiver	Rohde & Schwarz	FSW43	14830	29/07/2020	29/09/2021
Shielded enclosure	RAY PROOF	C.V2	1423	04/10/2019	04/12/2022
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H1	7562	09/06/2021	09/08/2023
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity







7.4. Band-edge compliance

Reference standard:	FCC 47 CFR PART 15.247 and RSS 247
Test method:	ANSI C63.10: 2013
Test description: d) In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. EUT is connected to the measuring receiver via 50Ω attenuator(s). Only the highest levels are recorded.	

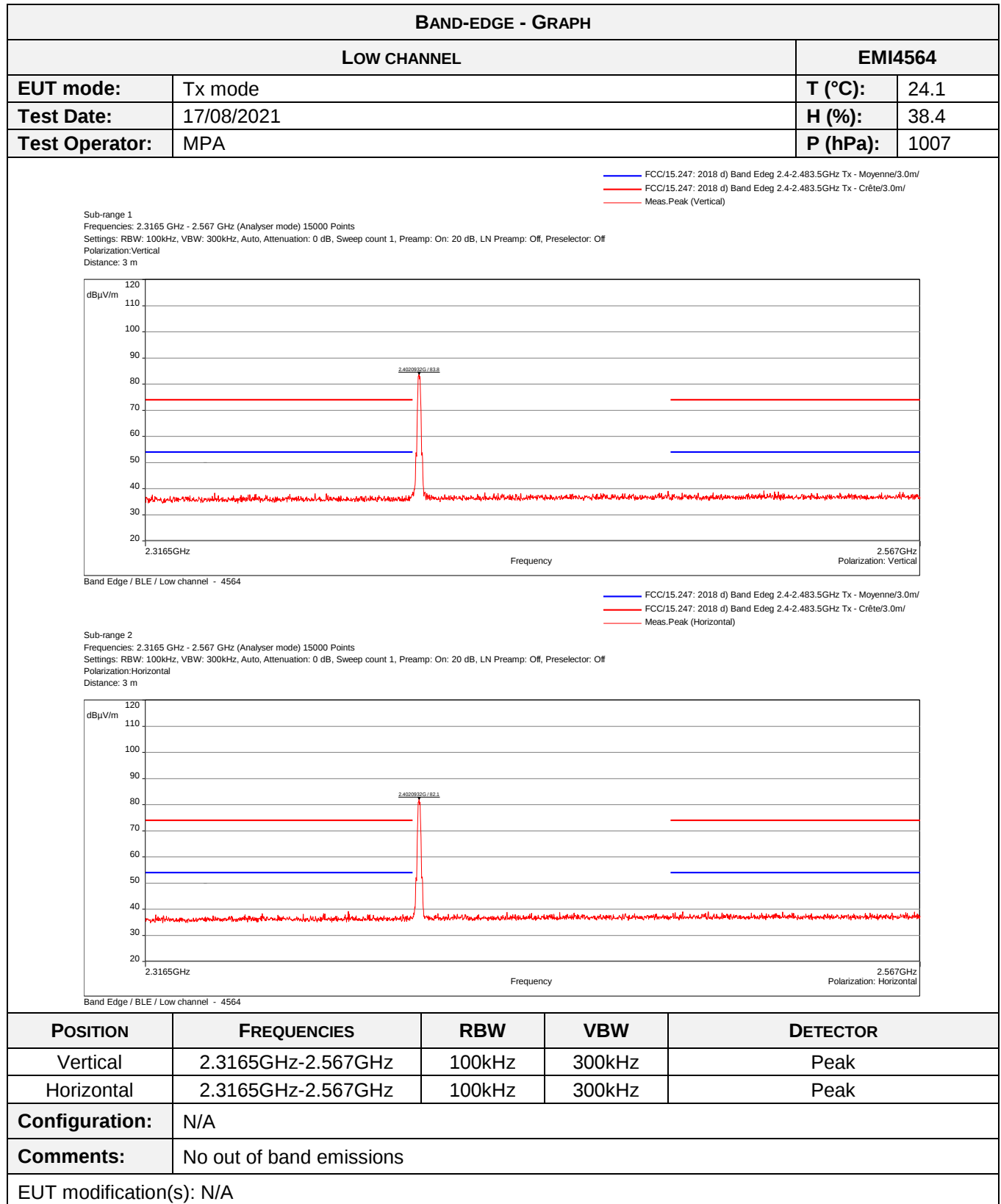
TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
Low channel	2.3165GHz-2.567GHz	15.209	EMI4564	PASS
Mid channel	2.3165GHz-2.567GHz	15.209	EMI4565	PASS
High channel	2.3165GHz-2.567GHz	15.209	EMI4566	PASS

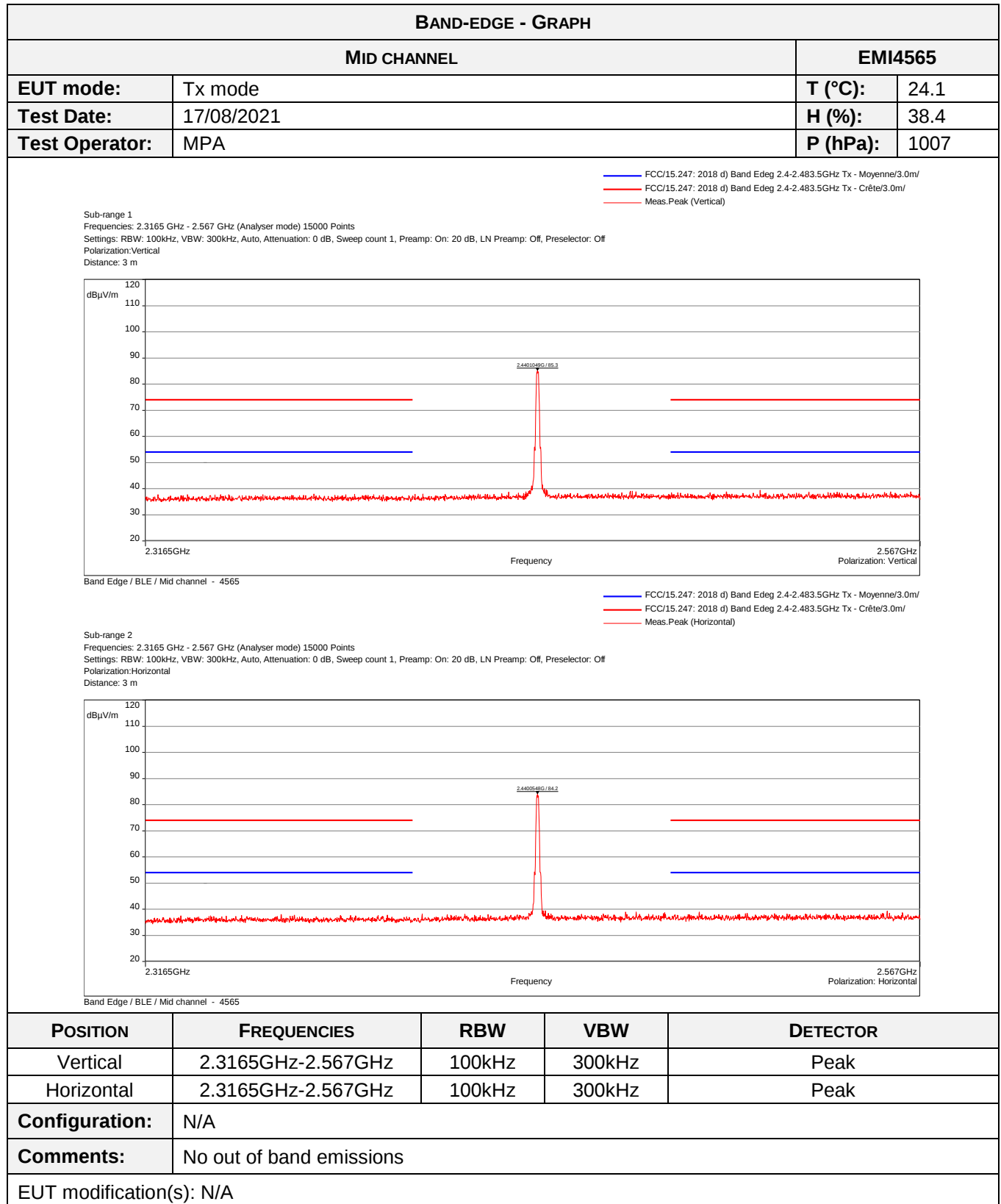
LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	See Graph(s)
Relative Humidity	20 to 75 %	See Graph(s)
Atmospheric pressure	N/A	See Graph(s)
Test method deviation: N/A		
Supplementary information: N/A		

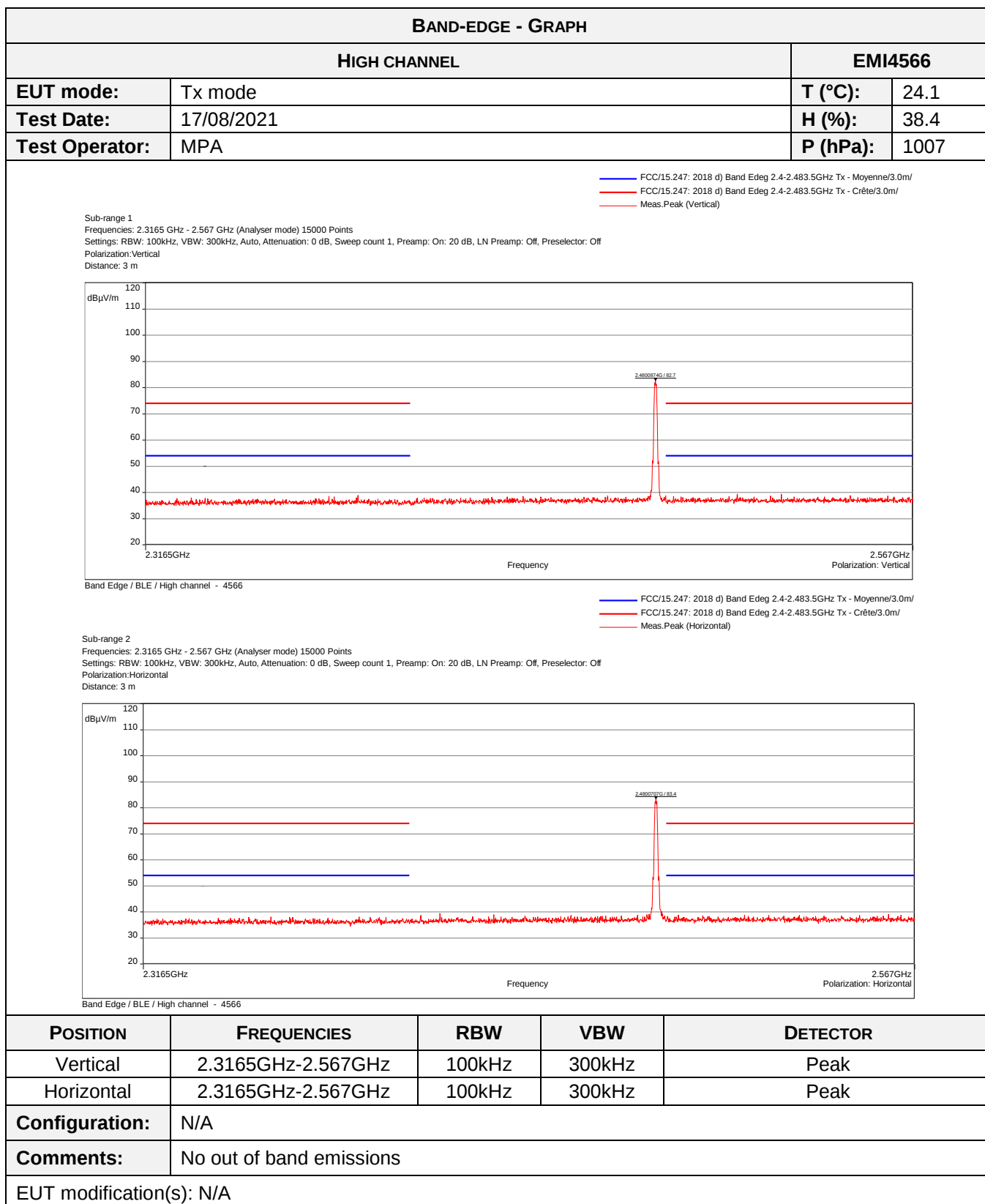
TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	ETS-Lindgren	3117	5456	24/07/2019	24/09/2022
Cable	SUCOFLEX	N-3m	14378	25/06/2019	25/08/2021
Cable	SUCOFLEX	N-5,5m	14381	25/06/2019	25/08/2021
Cable	Huber + Suhner	SF102K	16042	24/03/2021	24/05/2023
Receiver	Rohde & Schwarz	FSW43	14830	29/07/2020	29/09/2021
Shielded enclosure	RAY PROOF	C.V2	1423	04/10/2019	04/12/2022
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H1	7562	09/06/2021	09/08/2023
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity







7.5. Radiated spurious emissions

Reference standard:	FCC 47 CFR PART 15.109 & 15.209 and RSS 247
Test method:	ANSI C63.4: 2014 ANSI C63.10: 2013
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 (150cm for $f > 1\text{GHz}$). 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 a research of maximum level is done on the 3 axes. Only the highest levels are recorded.	

TESTED CONFIGURATION	PARAMETER	SEVERITY	RESULT TAB.	VERDICT
Radiated measurement / All channels / All Positions / 0°	9kHz-30MHz	15.209	EMI4567	PASS
Radiated measurement / All channels / All Positions / 45°	9kHz-30MHz	15.209	EMI4569	PASS
Radiated measurement / All channels / All Positions / 90°	9kHz-30MHz	15.209	EMI4570	PASS
Tx mode / for Freq $< 1\text{GHz}$ / All channels / All positions	30MHz-1GHz	15.209	EMI4593	PASS
Tx mode / for Freq $> 1\text{GHz}$ / Low channel (ch.37) / Position 1	1GHz-18GHz	15.209	EMI4544	PASS
Tx mode / for Freq $> 1\text{GHz}$ / Low channel (ch.37) / Position 2	1GHz-18GHz	15.209	EMI4550	PASS
Tx mode / for Freq $> 1\text{GHz}$ / Low channel (ch.37) / Position 3	1GHz-18GHz	15.209	EMI4551	PASS
Tx mode / for Freq $> 1\text{GHz}$ / Mid channel (ch.38) / Position 1	1GHz-18GHz	15.209	EMI4547	PASS
Tx mode / for Freq $> 1\text{GHz}$ / Mid channel (ch.38) / Position 2	1GHz-18GHz	15.209	EMI4548	PASS
Tx mode / for Freq $> 1\text{GHz}$ / Mid channel (ch.38) / Position 3	1GHz-18GHz	15.209	EMI4549	PASS
Tx mode / for Freq $> 1\text{GHz}$ / High channel (ch.39) / Position 1	1GHz-18GHz	15.209	EMI4552	PASS
Tx mode / for Freq $> 1\text{GHz}$ / High channel (ch.39) / Position 2	1GHz-18GHz	15.209	EMI4553	PASS
Tx mode / for Freq $> 1\text{GHz}$ / High channel (ch.39) / Position 3	1GHz-18GHz	15.209	EMI4554	PASS

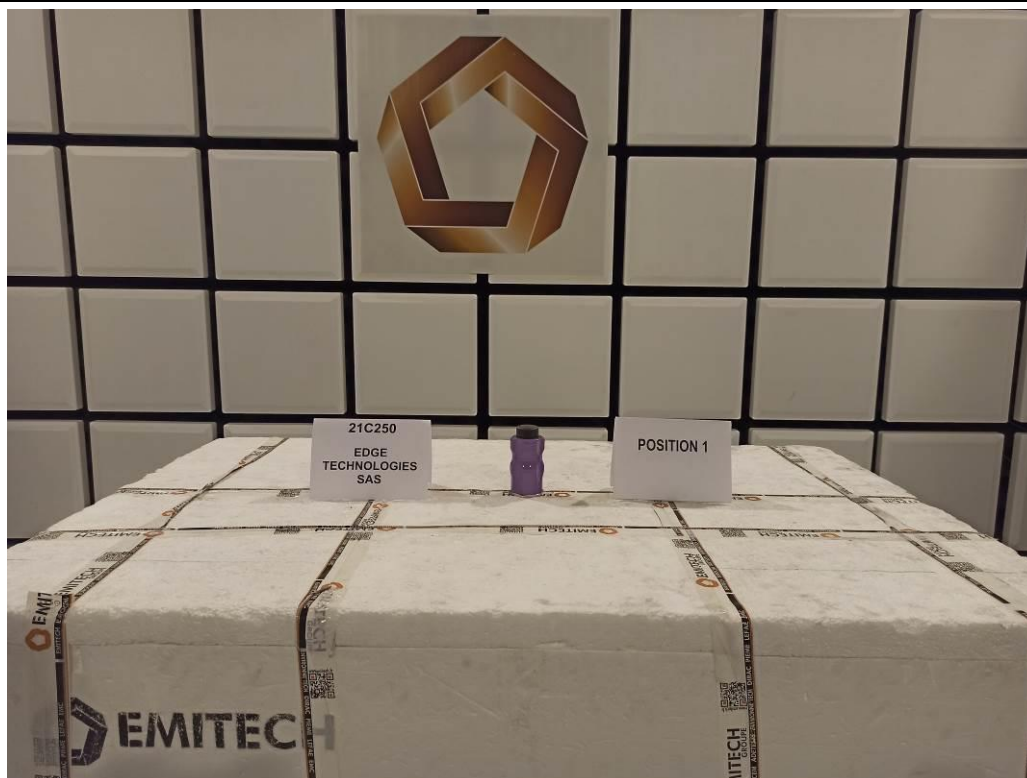
LABORATORY PARAMETERS:	REQUIRED PRIOR TO THE TEST	DURING THE TEST
Ambient Temperature	15 to 35 °C	See Graph(s)
Relative Humidity	20 to 75 %	See Graph(s)
Atmospheric pressure	N/A	See Graph(s)
Test method deviation: N/A		
Supplementary information: From 9 kHz to 30MHz: limit indicated on the curves is calculated with 40 dB/decade extrapolation factor and 51.5 dB conversion factor. From 30MHz to 1GHz Quasi peak limit provided is the limit given in §15.209. Above 1GHz average limit in restricted bands §15.205 is 54dBµV/m. Otherwise, the limit is 20dB under carrier emission level at 3m without averaging.		

TEST EQUIPMENT USED					
CATEGORY	BRAND	TYPE	IDENTIFIER	CAL. DATE	CAL. DUE
Antenna	Rohde & Schwarz	HFH2-Z2	5825	24/04/2020	24/06/2022
Antenna	ETS-Lindgren	3117	5456	24/07/2019	24/09/2022
Antenna	Electro Metrics	BIA-30HF	1107	27/06/2018	27/02/2022
Antenna	Rohde & Schwarz	HL223	1137	27/06/2018	27/02/2022
Cable	MegaPhase	F135N1N28	16667	25/10/2019	25/12/2021
Cable	MegaPhase	F135N1N28	16668	25/10/2019	25/12/2021
Cable	SUCOFLEX	N-3m	14378	25/06/2019	25/08/2021
Cable	SUCOFLEX	N-3m	14379	25/06/2019	25/08/2021
Cable	SUCOFLEX	N-5,5m	14381	25/06/2019	25/08/2021
Cable	SUCOFLEX	N-6,5m	14380	25/07/2019	25/09/2021
Cable	MegaPhase	N-8m	15813	14/01/2021	14/03/2023
Cable	Huber + Suhner	SF102K	16042	24/03/2021	24/05/2023
Cable	MegaPhase	TM18-N1N1-118	12842	02/12/2020	02/02/2023
Filter	Micro-Tronics	HPM 15162	10273	12/01/2019	12/03/2022
Filter	Micro-Tronics	HPM18865	12843	09/06/2018	09/02/2022
Preamplifier	Techniwave	APS16-0087	14040	02/12/2020	02/02/2022
Receiver	Rohde & Schwarz	ESW26	17791	14/04/2021	14/06/2022
Receiver	Rohde & Schwarz	FSW43	14830	29/07/2020	29/09/2021
Shielded enclosure	RAY PROOF	C.V2	1423	04/10/2019	04/12/2022
Shielded enclosure	COMTEST	SAC 3m	14494	02/10/2019	02/12/2022
Software	Nexio	BAT EMC	0000		
Thermohygrometer	Testo	608-H1	7562	09/06/2021	09/08/2023
Thermohygrometer	Testo	608-H2	12269	07/05/2020	07/07/2022
Thermohygrometer	Bioblock Scientific	Météostar	0963	07/06/2021	07/08/2023

BAT-EMC software version: V3.18.0.26

Blank cells = Permanent validity

TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – POSITION 1



TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – POSITION 2



TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – POSITION 3



TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – 9 KHZ TO 30 MHZ



TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – 30 MHz TO 200 MHz



TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – 200 MHz TO 1 GHz



TEST SETUP PHOTO(S) – RADIATED EMISSION LIMITS – 1 GHz TO 18 GHz

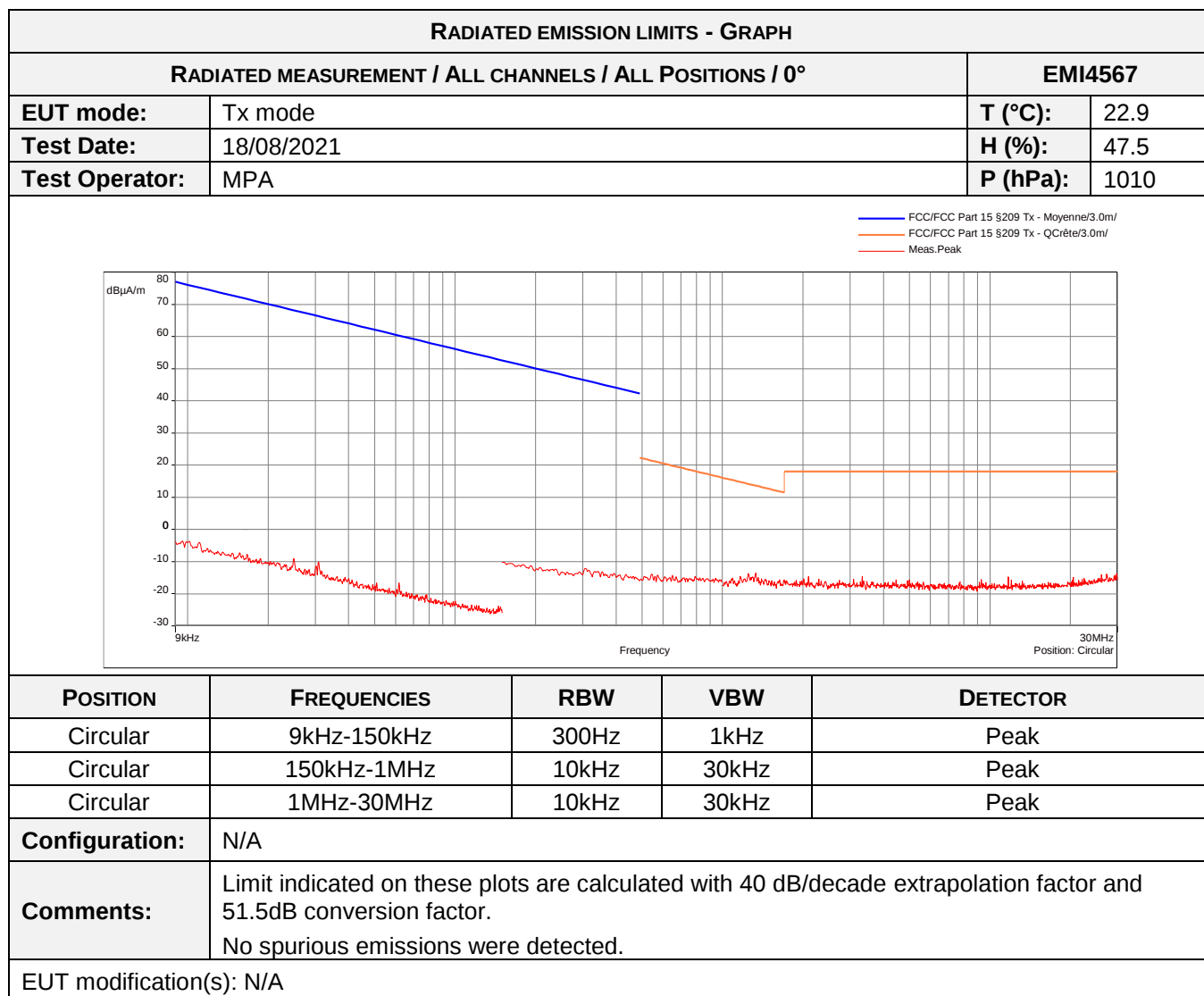


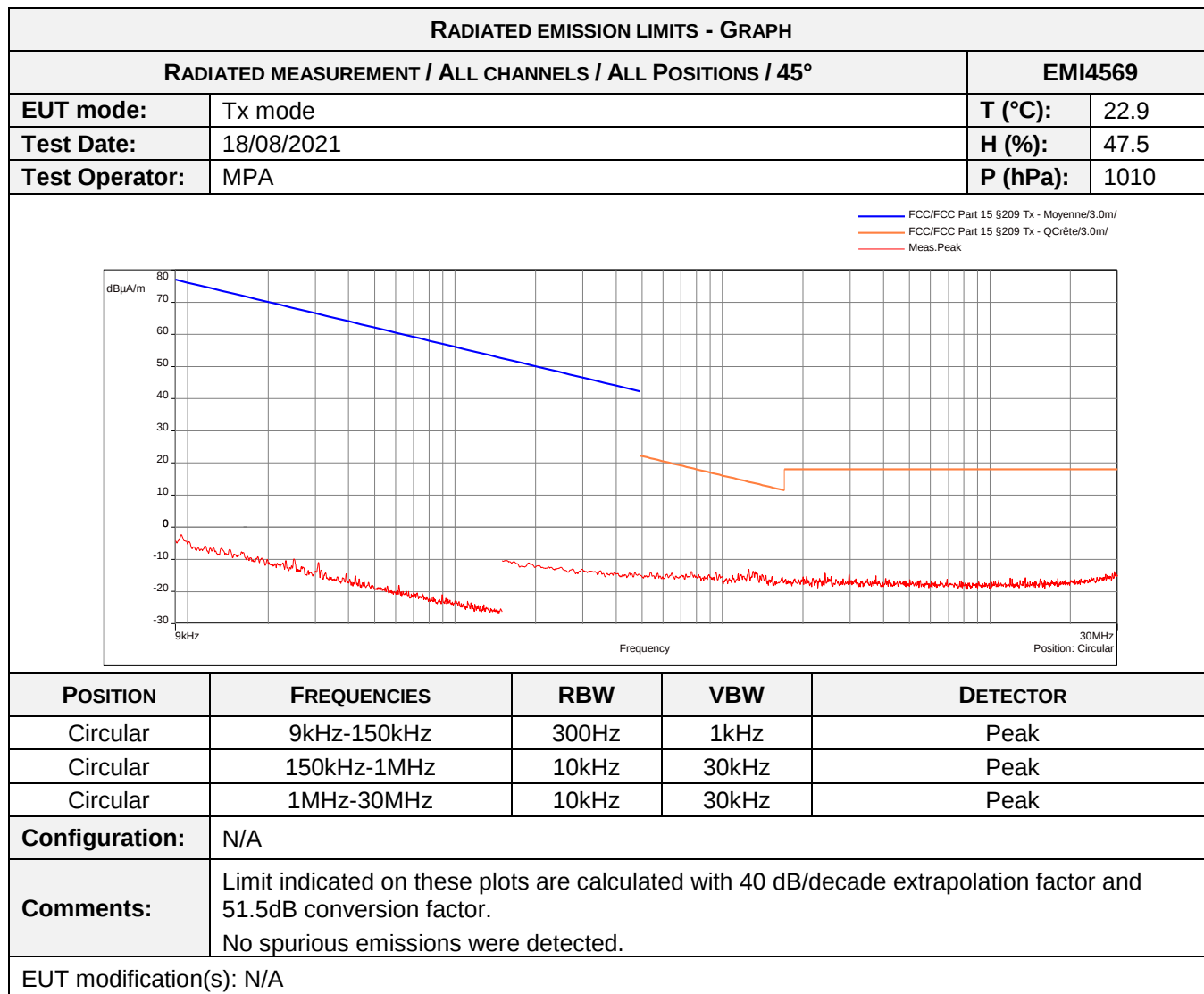
RADIATED EMISSION LIMITS – TABULATED RESULTS						
TX MODE / FOR FREQ < 1GHz / ALL CHANNELS / ALL POSITIONS						
FREQUENCY (MHz)	POLARIZATION	EUT POSITION	PEAK LEVEL (dBµV/m)	AVERAGE / QPEAK LEVEL (dBµV/m)	AVERAGE / QPEAK LIMIT (dBµV/m)	MARGINING (dB)
936.84	Vertical	All positions	30.84	24.71	46	-21.29
Supplementary information: N/A						

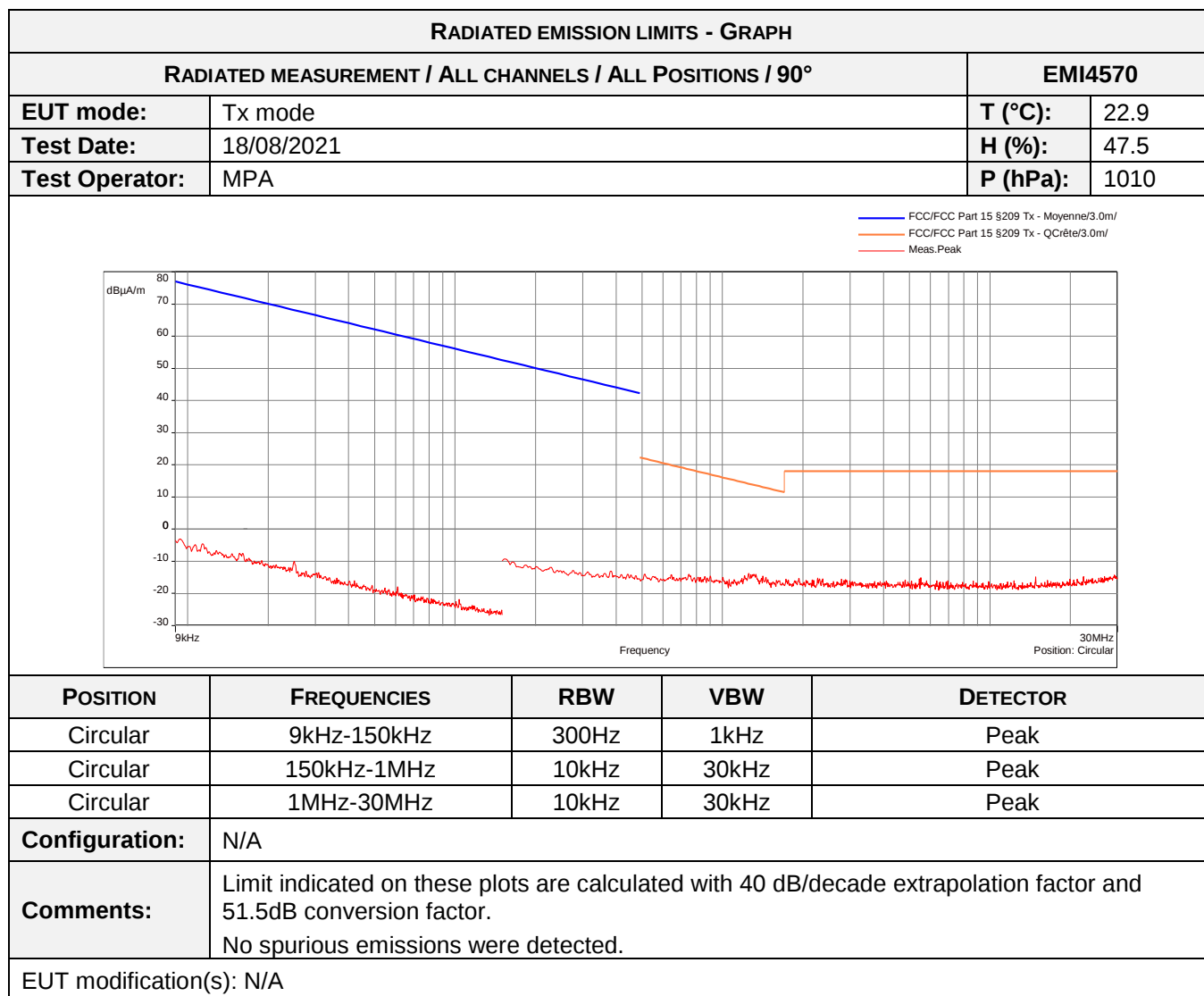
RADIATED EMISSION LIMITS – TABULATED RESULTS						
TX MODE / FOR FREQ > 1GHz / LOW CHANNEL (CH.37)						
FREQUENCY (MHz)	POLARIZATION	EUT POSITION	PEAK LEVEL (dBµV/m)	AVERAGE LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	MARGINING (dB)
4803.56	Vertical	Position 1	50.40	47.28	54	-6.72
7205.14	Vertical	Position 1	44.75	39.52	54	-14.48
4803.56	Horizontal	Position 1	48.95	46.21	54	-7.79
4803.56	Vertical	Position 2	55.13	53.98	54	-0.02
4804.56	Horizontal	Position 2	51.13	49.64	54	-4.36
7206.64	Horizontal	Position 2	44.12	38.70	54	-15.30
4803.56	Vertical	Position 3	47.35	44.39	54	-9.61
4804.56	Horizontal	Position 3	54.48	53.30	54	-0.70
7205.64	Horizontal	Position 3	45.31	40.67	54	-13.33
9555.71	Horizontal	Position 3	47.99	41.60	54	-12.40
Supplementary information: Spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported.						
A prescan above 18GHz was performed with no spurious detected.						

RADIATED EMISSION LIMITS – TABULATED RESULTS						
TX MODE / FOR FREQ > 1GHz / MID CHANNEL (CH.38)						
FREQUENCY (MHz)	POLARIZATION	EUT POSITION	PEAK LEVEL (dBµV/m)	AVERAGE LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	MARGINING (dB)
2567.51	Vertical	Position 1	45.06	42.61	54	-11.39
4879.56	Vertical	Position 1	49.44	47.42	54	-6.58
7320.14	Vertical	Position 1	44.70	40.42	54	-13.58
2556.65	Horizontal	Position 1	45.42	38.94	54	-15.06
4880.56	Horizontal	Position 1	48.36	46.37	54	-7.63
2567.85	Vertical	Position 2	46.44	39.13	54	-14.87
4880.06	Vertical	Position 2	53.12	52.23	54	-1.77
2560.25	Horizontal	Position 2	44.78	42.85	54	-11.15
4879.56	Horizontal	Position 2	49.35	46.39	54	-7.61
4879.56	Vertical	Position 3	46.55	43.88	54	-10.12
2557.25	Horizontal	Position 3	47.63	42.21	54	-11.79
4879.56	Horizontal	Position 3	53.39	52.49	54	-1.51
7320.64	Horizontal	Position 3	45.27	39.47	54	-14.53
Supplementary information: Spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported.						
A prescan above 18GHz was performed with no spurious detected.						

RADIATED EMISSION LIMITS – TABULATED RESULTS						
TX MODE / FOR FREQ > 1GHz / HIGH CHANNEL (CH.39)						
FREQUENCY (MHz)	POLARIZATION	EUT POSITION	PEAK LEVEL (dBµV/m)	AVERAGE LEVEL (dBµV/m)	AVERAGE LIMIT (dBµV/m)	MARGINING (dB)
2565.38	Vertical	Position 1	52.99	49.48	54	-4.52
4959.56	Vertical	Position 1	50.38	48.85	54	-5.15
4960.56	Horizontal	Position 1	47.94	47.10	54	-6.90
2565.05	Vertical	Position 2	53.73	49.71	54	-4.29
4959.06	Vertical	Position 2	54.13	52.42	54	-1.58
4960.56	Horizontal	Position 2	50.48	49.21	54	-4.79
4960.56	Vertical	Position 3	47.42	43.45	54	-10.55
4959.56	Horizontal	Position 3	54.33	53.08	54	-0.92
7440.14	Horizontal	Position 3	44.15	39.78	54	-14.22
Supplementary information: Spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported.						
A prescan above 18GHz was performed with no spurious detected.						







RADIATED SPURIOUS EMISSIONS (TRANSMITTER) - GRAPH

TX MODE / FOR FREQ < 1GHz / ALL CHANNELS / ALL POSITIONS

EMI4593

EUT mode: Tx mode

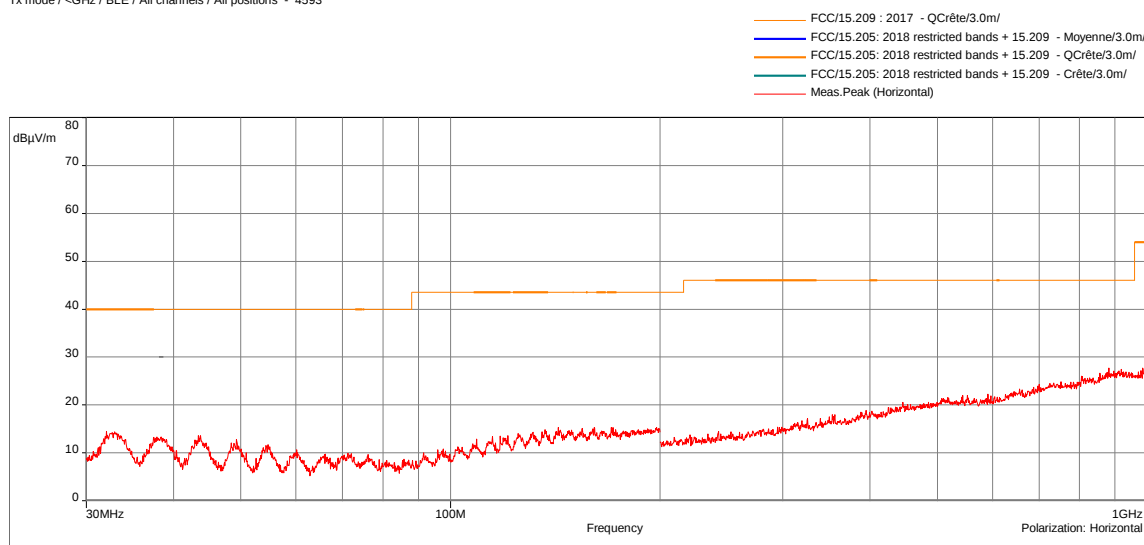
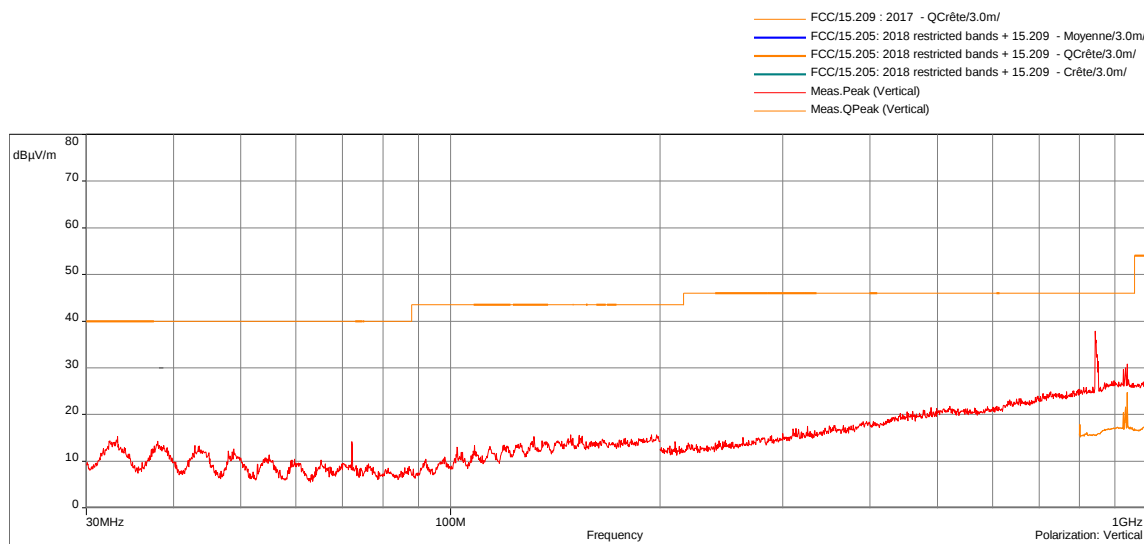
T (°C): 23.1

Test Date: 18/08/2021

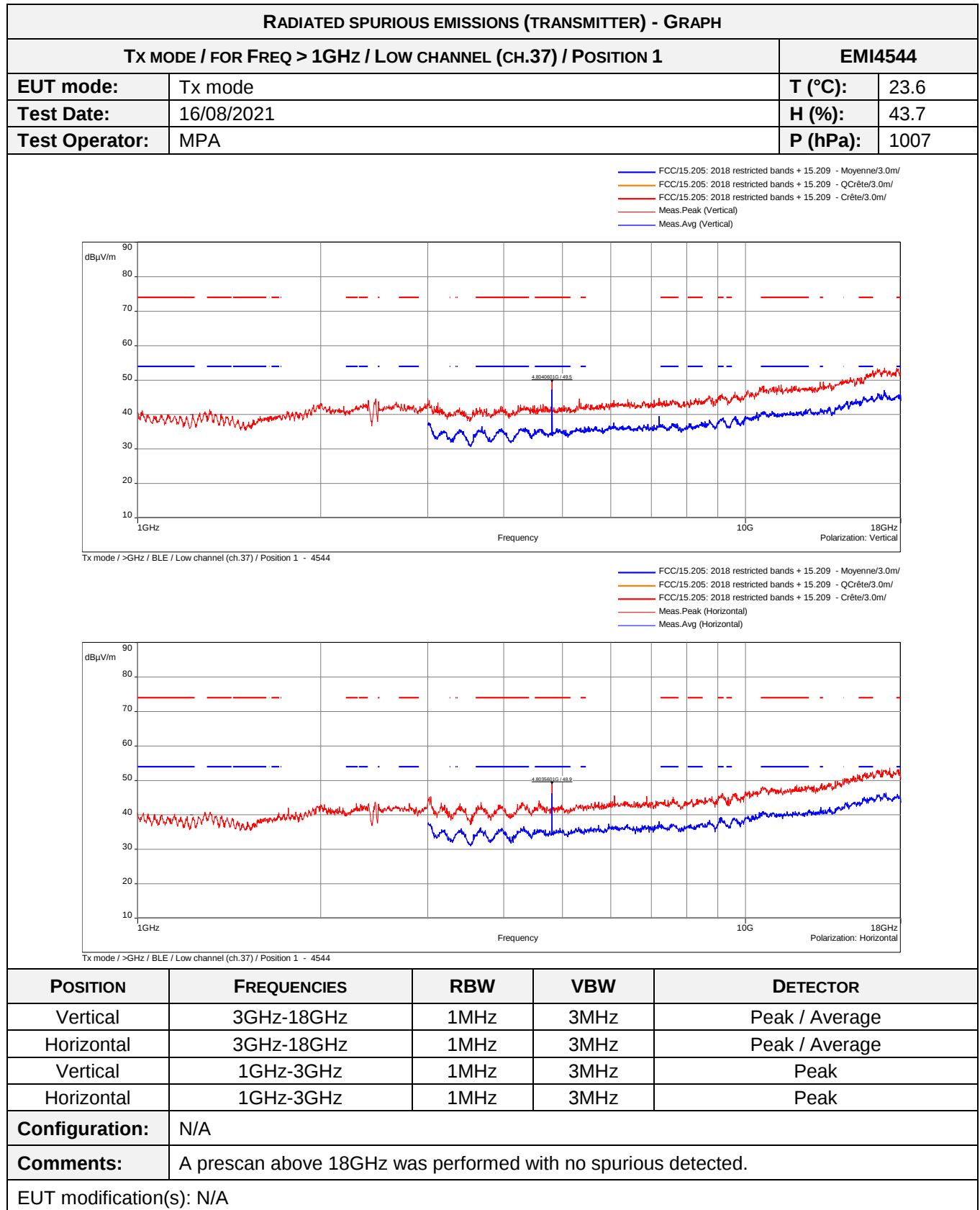
H (%): 46

Test Operator: MPA

P (hPa): 1010



POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	30MHz-200MHz	100kHz	300kHz	Peak
Horizontal	30MHz-200MHz	100kHz	300kHz	Peak
Vertical	200MHz-1GHz	100kHz	300kHz	Peak
Horizontal	200MHz-1GHz	100kHz	300kHz	Peak
Vertical	800MHz-1GHz	120kHz	360kHz	QPeak
Configuration:	N/A			
Comments:	No spurious emissions were detected. Spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported			
EUT modification(s): N/A				

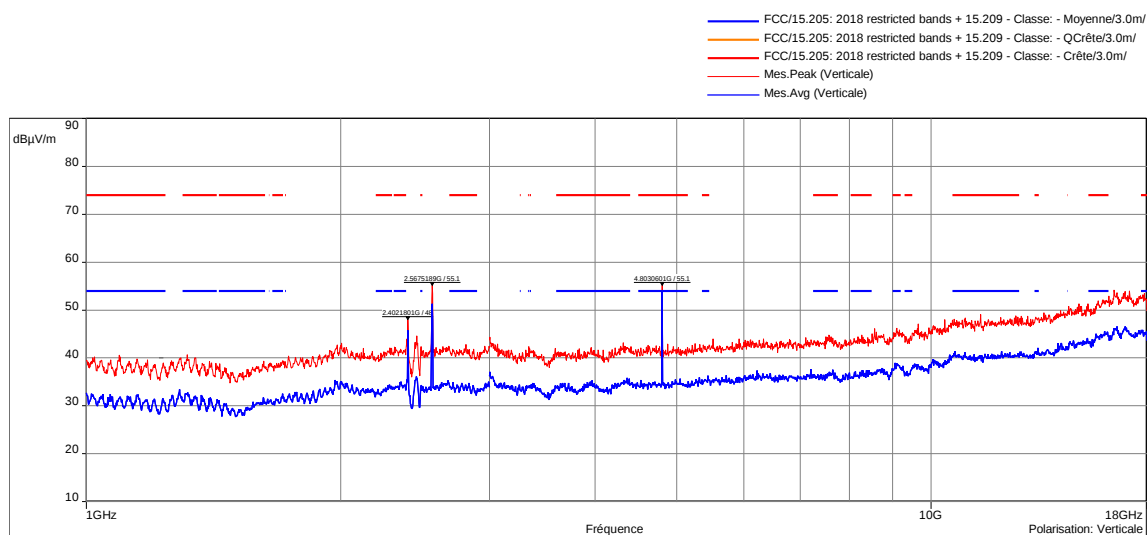


RADIATED SPURIOUS EMISSIONS (TRANSMITTER) - GRAPH

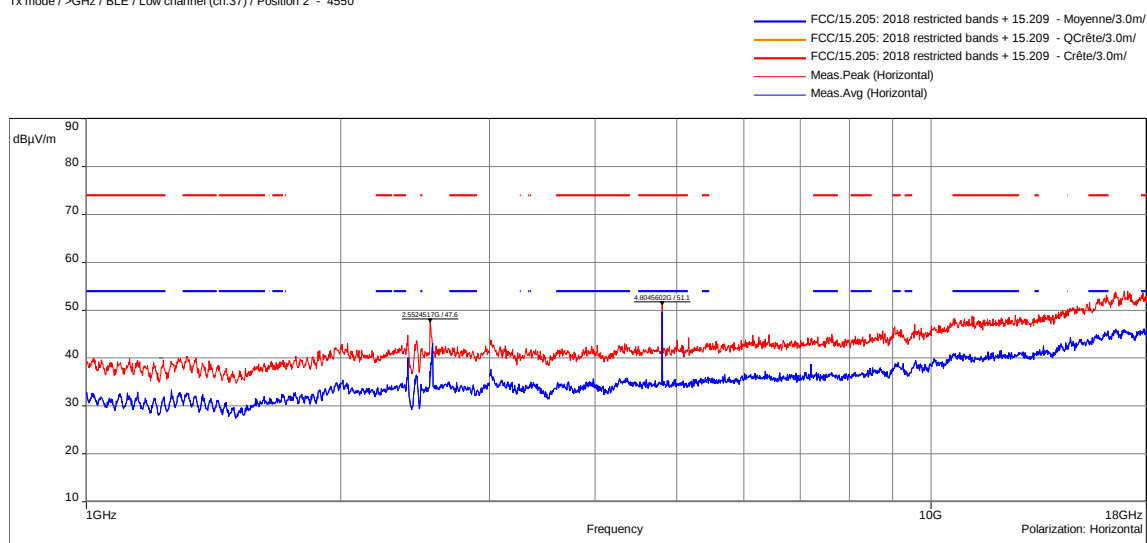
Tx mode / FOR FREQ > 1GHz / Low channel (ch.37) / Position 2

EMI4550

EUT mode:	Tx mode	T (°C):	23.6
Test Date:	16/08/2021	H (%):	43.7
Test Operator:	MPA	P (hPa):	1007

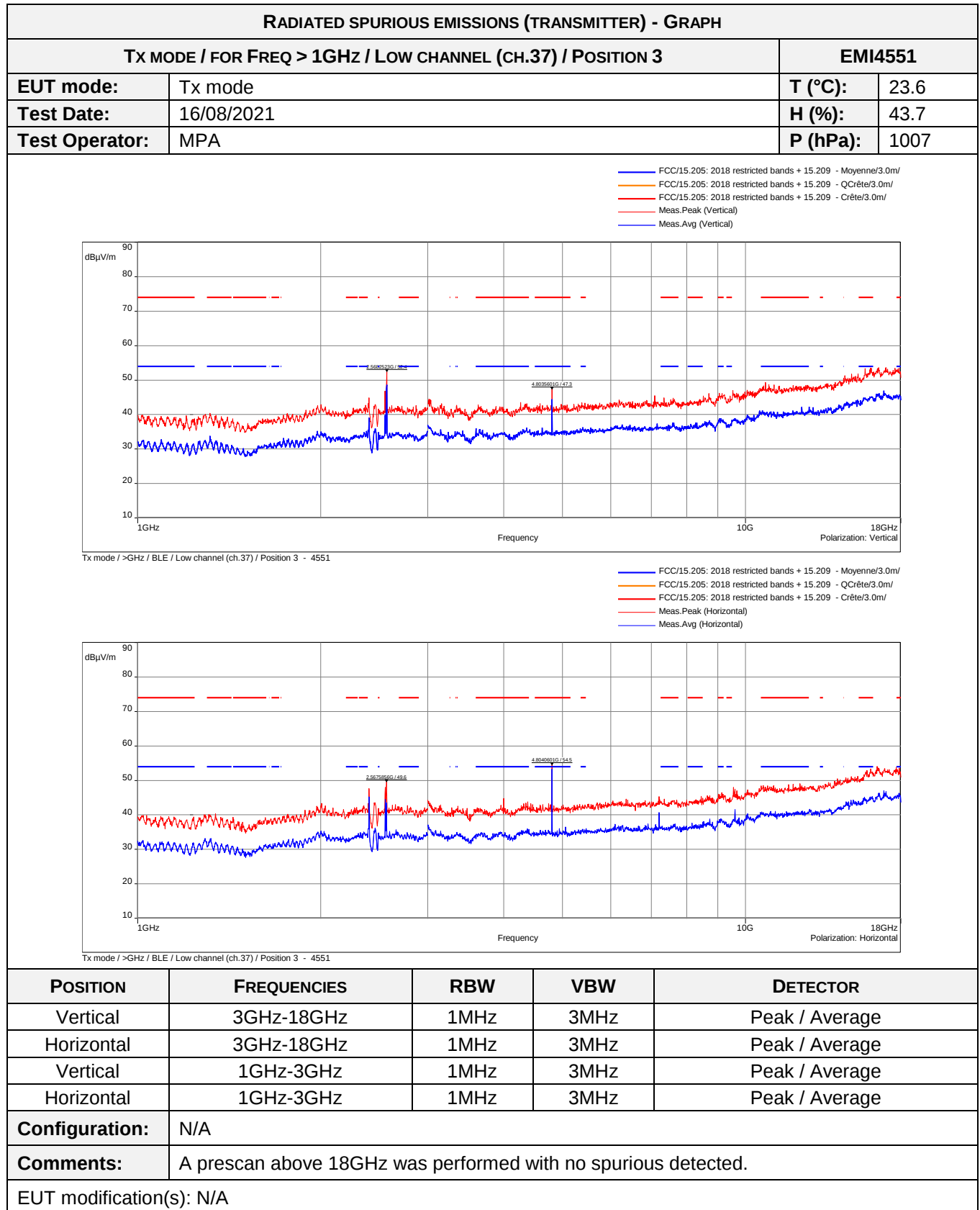


Tx mode / >GHz / BLE / Low channel (ch.37) / Position 2 - 4550



Tx mode / >GHz / BLE / Low channel (ch.37) / Position 2 - 4550

POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	3GHz-18GHz	1MHz	3MHz	Peak / Average
Horizontal	3GHz-18GHz	1MHz	3MHz	Peak / Average
Vertical	1GHz-3GHz	1MHz	3MHz	Peak / Average
Horizontal	1GHz-3GHz	1MHz	3MHz	Peak / Average
Configuration:	N/A			
Comments:	A prescan above 18GHz was performed with no spurious detected.			
EUT modification(s):	N/A			

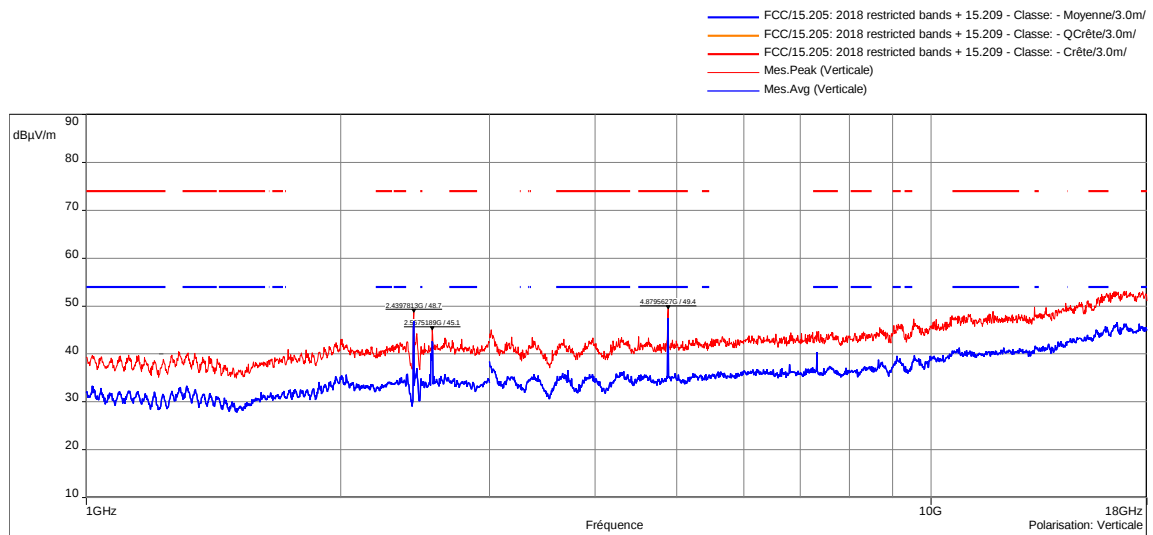


RADIATED SPURIOUS EMISSIONS (TRANSMITTER) - GRAPH

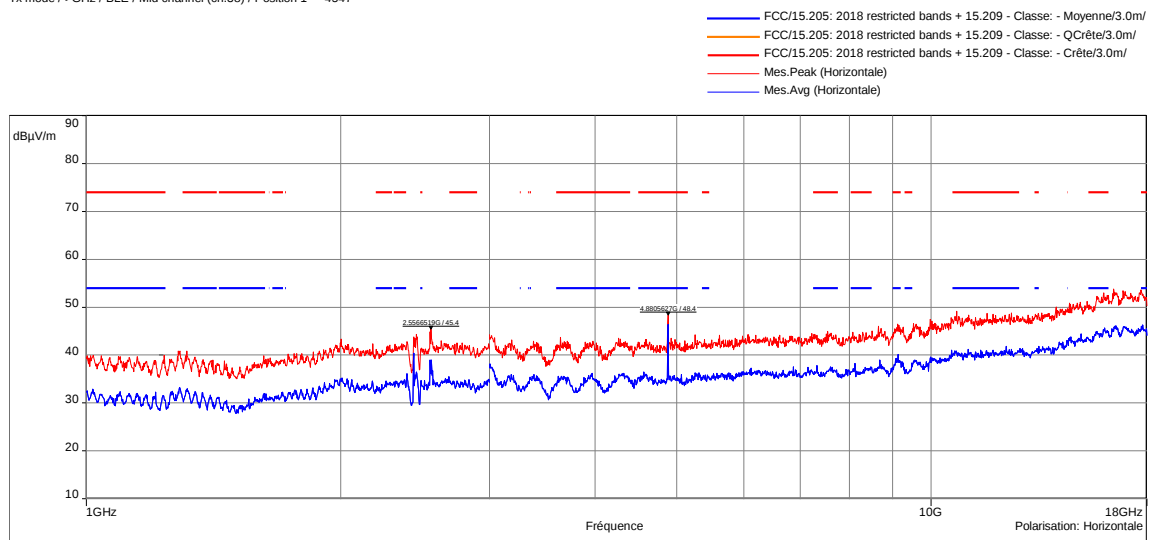
TX MODE / FOR FREQ > 1GHz / MID CHANNEL (ch.38) / POSITION 1

EMI4547

EUT mode:	Tx mode	T (°C):	23.6
Test Date:	16/08/2021	H (%):	43.7
Test Operator:	MPA	P (hPa):	1007

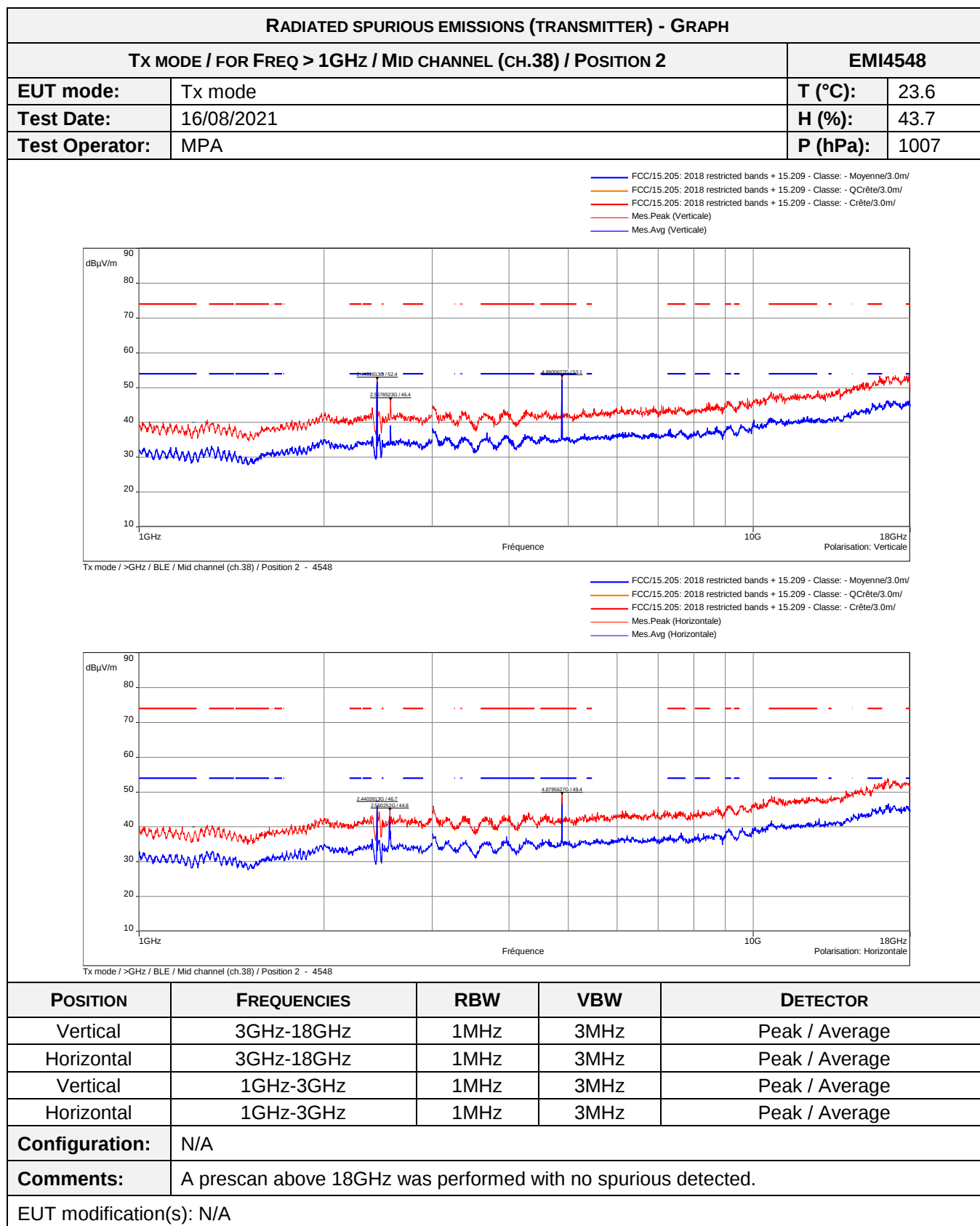


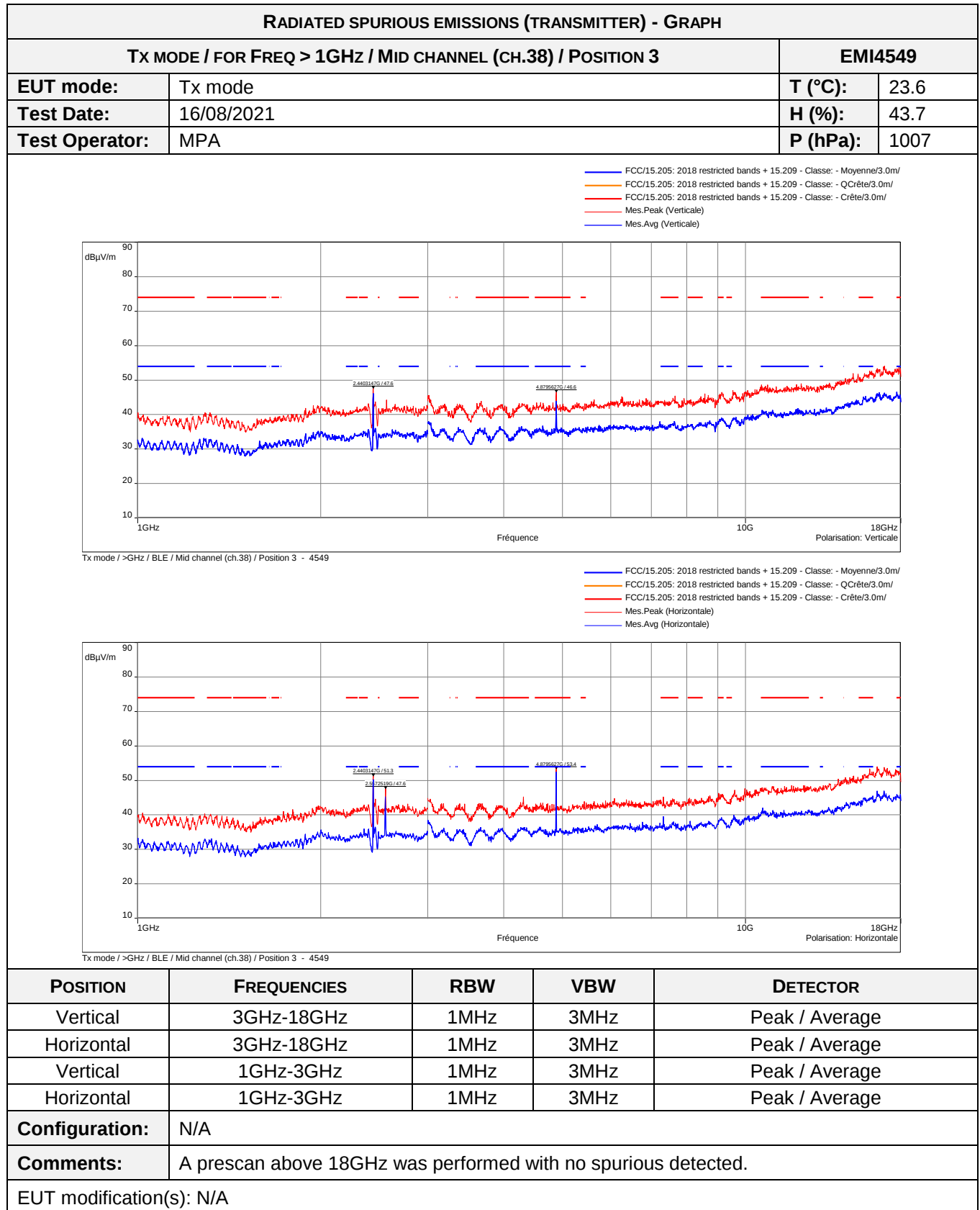
Tx mode / >GHz / BLE / Mid channel (ch.38) / Position 1 - 4547



Tx mode / >GHz / BLE / Mid channel (ch.38) / Position 1 - 4547

POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	3GHz-18GHz	1MHz	3MHz	Peak / Average
Horizontal	3GHz-18GHz	1MHz	3MHz	Peak / Average
Vertical	1GHz-3GHz	1MHz	3MHz	Peak / Average
Horizontal	1GHz-3GHz	1MHz	3MHz	Peak / Average
Configuration:	N/A			
Comments:	A prescan above 18GHz was performed with no spurious detected.			
EUT modification(s):	N/A			



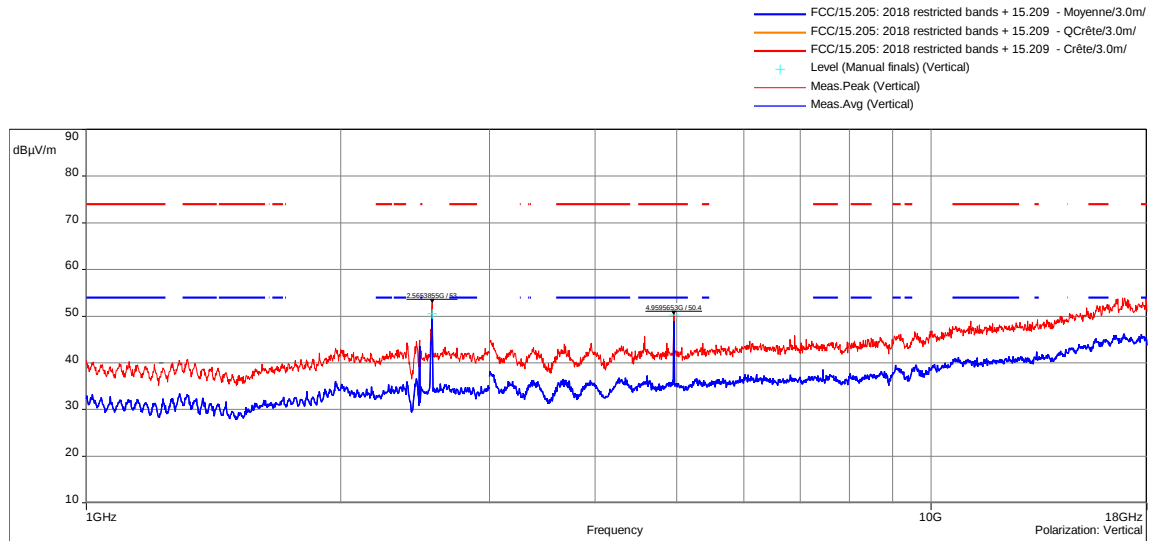


RADIATED SPURIOUS EMISSIONS (TRANSMITTER) - GRAPH

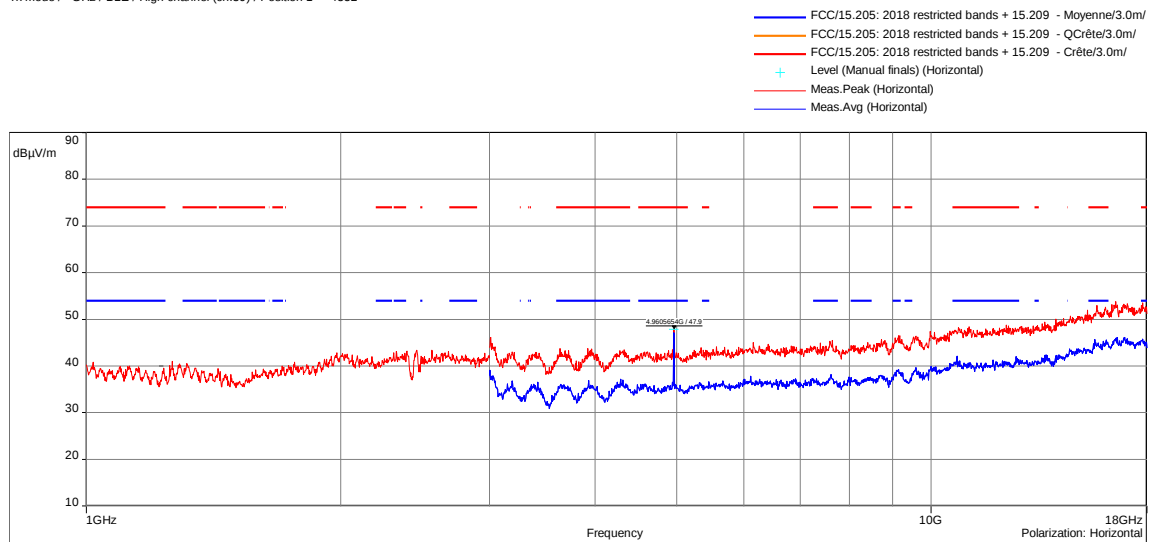
Tx mode / FOR FREQ > 1GHz / HIGH CHANNEL (CH.39) / POSITION 1

EMI4552

EUT mode:	Tx mode	T (°C):	23.6
Test Date:	16/08/2021	H (%):	43.7
Test Operator:	MPA	P (hPa):	1007

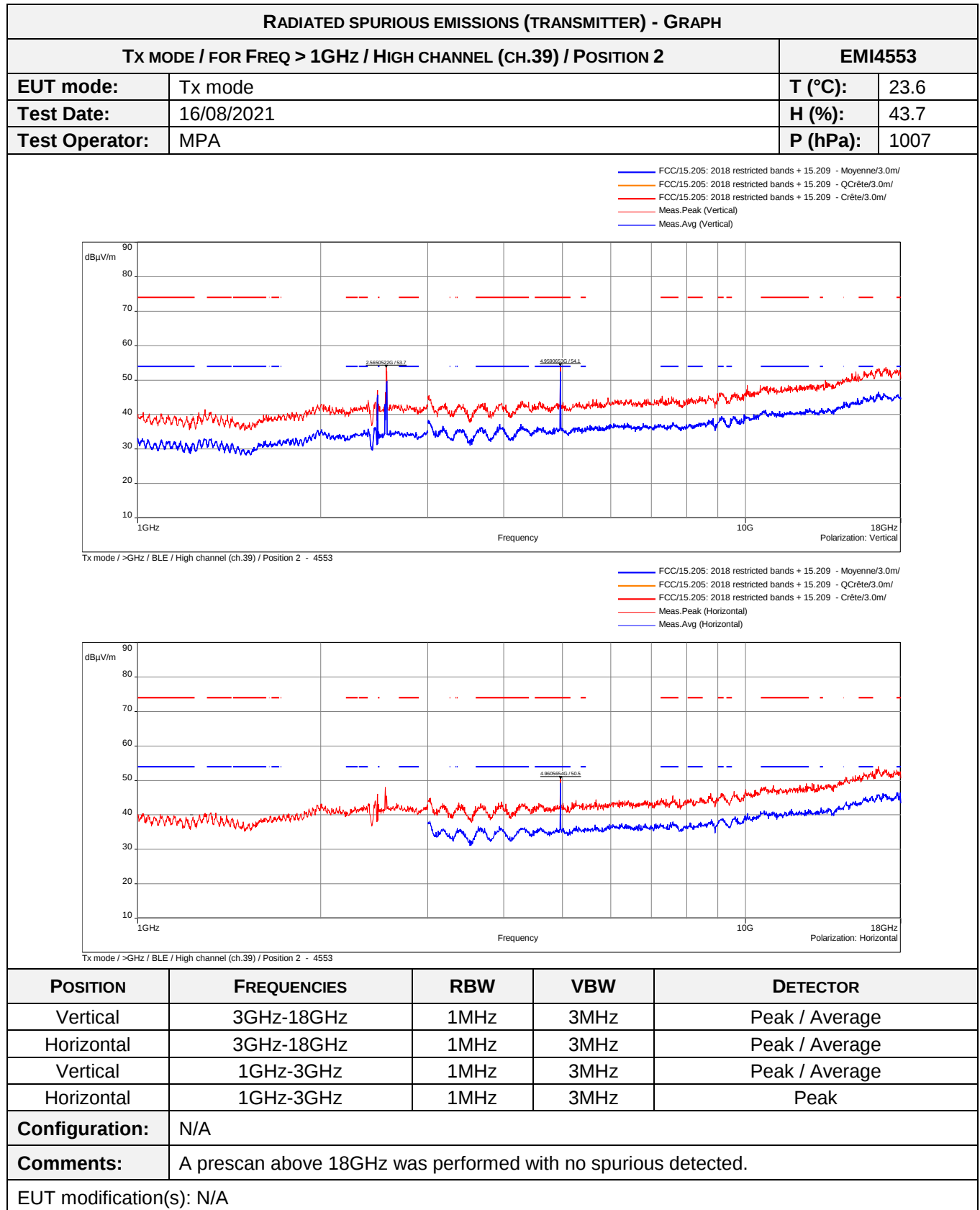


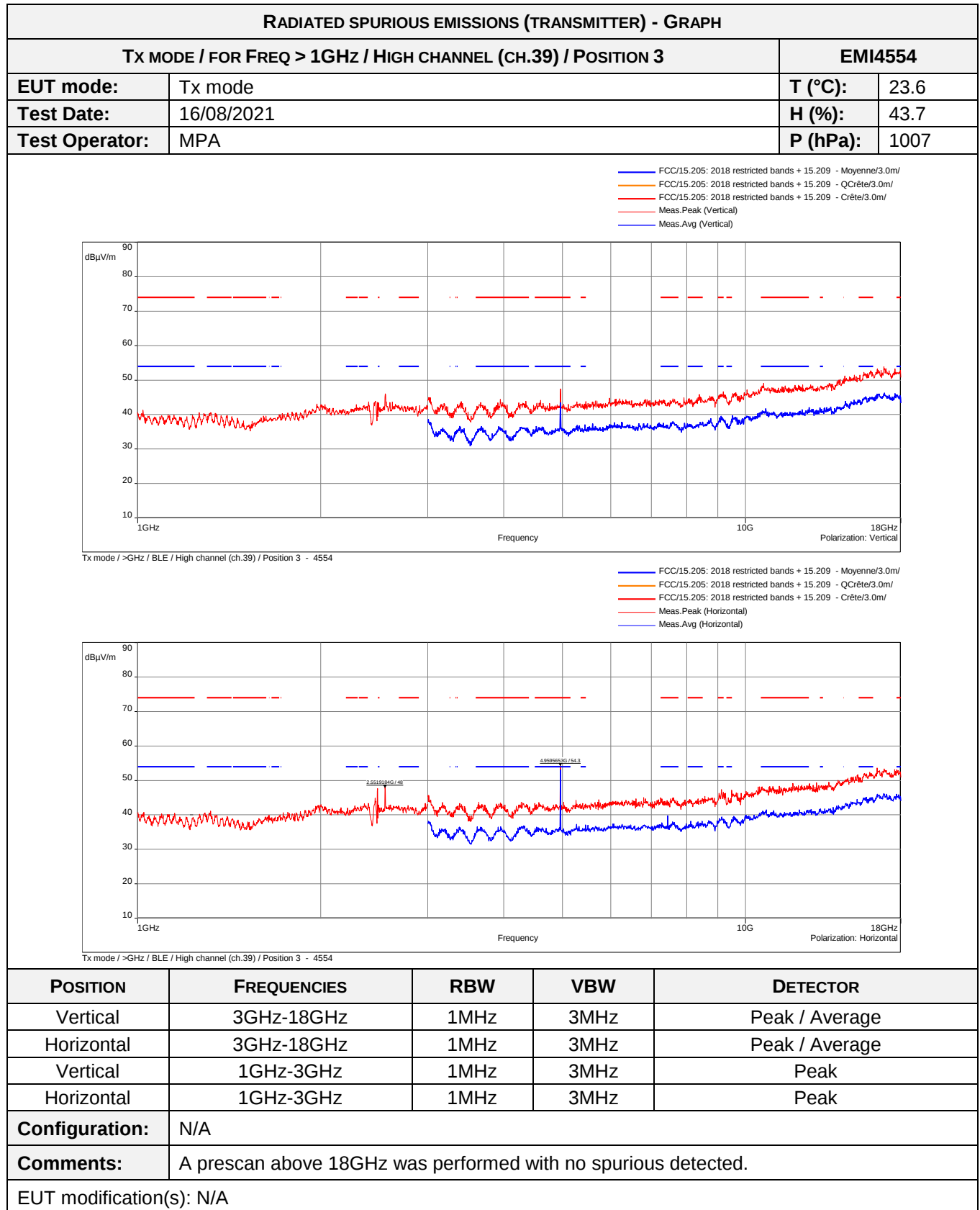
Tx mode / >GHz / BLE / High channel (ch.39) / Position 1 - 4552



Tx mode / >GHz / BLE / High channel (ch.39) / Position 1 - 4552

POSITION	FREQUENCIES	RBW	VBW	DETECTOR
Vertical	3GHz-18GHz	1MHz	3MHz	Peak / Average
Horizontal	3GHz-18GHz	1MHz	3MHz	Peak / Average
Vertical	1GHz-3GHz	1MHz	3MHz	Peak / Average
Horizontal	1GHz-3GHz	1MHz	3MHz	Peak
Configuration:	N/A			
Comments:	A prescan above 18GHz was performed with no spurious detected.			
EUT modification(s):	N/A			





End of test report