

Test Report

of the accredited Testing Laboratory
0274 – TÜV AUSTRIA GMBH – Location Vienna - EMC Radio
ISED Laboratory Company Number: 2932K, CAB identifier: AT0001

Order Confirmation Number: 2024-AT-TC-EE-ET-EX-0-000216
About

the Radio - test listed below

Applicant: Harman Professional, Inc.
8500 Balboa Blvd.
Northridge, CA91325-5818, USA

Test object: Wireless microphone receiver
DMS300-SR300
FCC-ID: API-SR300
IC-ID: 6132A-SR300

Serial number: SN: 190

Accredited regulation: FCC: 47 CFR Part 15 (eCFR 2.12.2024)
RSS-247 Issue 4, July 2025
RSS-102 Issue 6, December 2023
ANSI C63.10a-2024

Stefan Zillner



Examined by / Testing Laboratory
TÜV AUSTRIA GMBH



Andreas Malek



Approved by / Testing Laboratory
TÜV AUSTRIA GMBH

The results of this test report only refer to the provided equipment.

Issued on 26.11.2025 in Vienna / TIC

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1. Applicant

Company: Harman Professional, Inc.

Department: R&D

Address: 8500 Balboa Blvd.
Northridge, CA91325-5818, USA

Contact person: Mr. Gabor Mikovics

EUT received on: 18.09.2024

Tests were performed on: 02.12.2024 till 17.03.2025

2. Description of EUT

EUT:	Wireless microphone receiver DMS300-SR300
Product Name:	DMS300-SR300
Model:	DMS300-SR300
Serial Number:	SN: 190
Manufacturer:	VTech Communications Ltd. Xia Ling Bei Management Zone, Liaobu, Dongguan, Guangdong Province 523411 China
Description:	Harman Professional, Inc. provided the following configuration for the measurements: Equipment Under Test with test firmware
Operating mode:	The measurements were carried out at the following running states: test-firmware running, transmitting continuously
Technical data EUT:	Rated voltage: 9 V Rated frequency: DC Mains voltage during the tests: 9 VDC via external power supply
Climatic conditions in the emc laboratory:	Relative humidity: 31% Temperature: 23°C

3. Standards / Final result

Name	Title	Deviation	Result
FCC: 47 CFR Part 15 (eCFR 02.12.2024)	RADIO FREQUENCY DEVICES	none	OK
RSS-247 Issue 4, July 2025	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices	none	OK
RSS-102 Issue 6, December 2023	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)	none	OK
ANSI C63.10a-2024	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	none	OK
Result: Opinions and interpretation of testing laboratory OK: EUT passed NOK: EUT failed			

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4. TEST RESULTS

4.1. TEST OBJECT DATA

General EUT Description

2.1033 (c) Technical description

2.1033 (7) Type of emission: 694KF1D – Channel spacing 1 MHz

2.1033 (8) Frequency range: 2402 to 2480 MHz (channel center frequencies).

2.1033 (9) Power range and Controls: The maximum peak output power is 4.72 mW with adaptive power control

2.1033 (10) Maximum output power rating: 4.72 mW eirp.

2.1033 (11) DC Voltage and Current: 9V DC

RSS-135 This standard does not apply to:

- 1.1.(a) a receiver that scans radio frequencies for the purpose of enabling its associated transmitter to avoid transmitting in an occupied frequency but which does not have the capability of decoding the message (e.g. converting it to audio voice) contained in the radio signal

Worst case Spurious Emissions: 48.47 dBµV/m Average @ 2352,0 MHz

Tests were performed December 2nd 2024 till March 17th 2025.

4.2. Number of channels and channel spacing

§ 2.1033

Rated output power: 4.72 mW mW EIRP

There are 79 Channels used, starting at 2402 till 2480 MHz each separated by 1 MHz channel spacing.

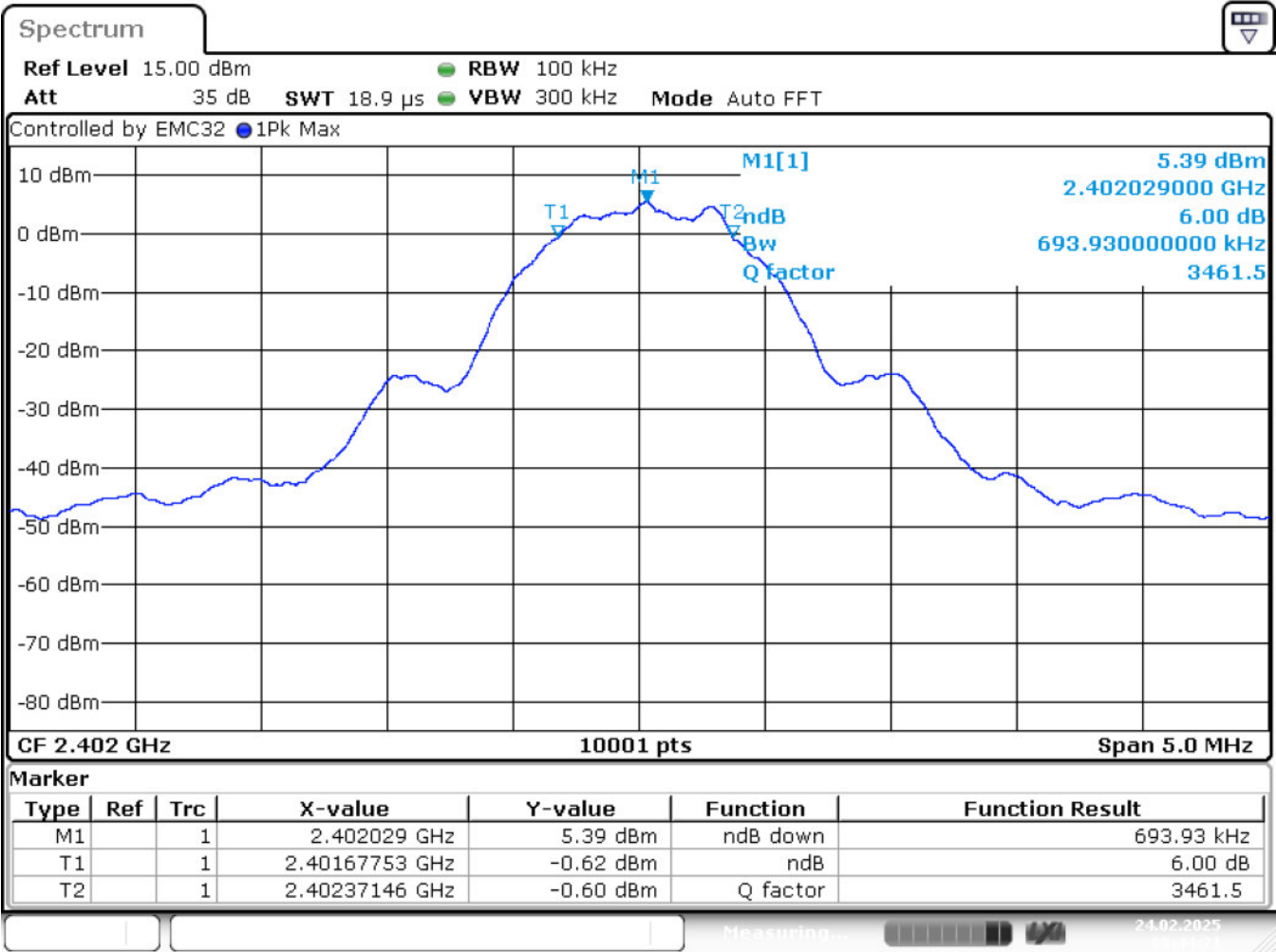


4.3. 6 dB Bandwidth

§ 15.247(a)(2)
5.2.a)

Conducted Measurement Antenna A

Rated output power: 4.72 mW 2402 MHz center frequency



Date: 24.FEB.2025 09:44:21

6dB Bandwidth (C63.10 DTS Bandwidth): 693.93 kHz

LIMIT SUBCLAUSE 15.247(e) – 5.2.a)

Under normal test conditons	6 dB Bandwidth at least 500 kHz
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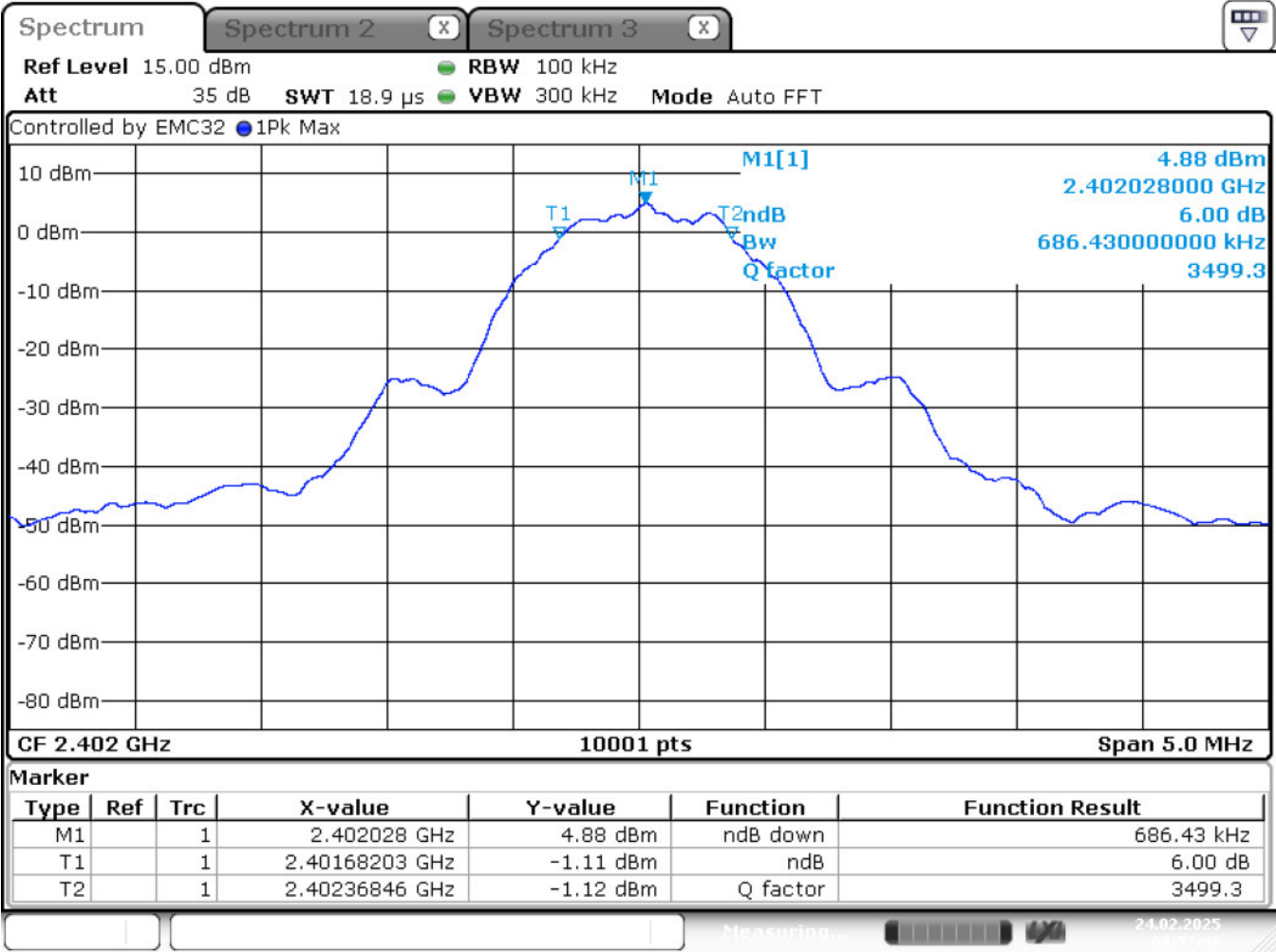
Test Equipment used: EMV-205;

6 dB Bandwidth

§ 15.247(a)(2)
5.2.a)

Conducted Measurement Antenna B

Rated output power: 4.72 mW 2402 MHz center frequency



Date: 24.FEB.2025 09:57:46

6dB Bandwidth (C63.10 DTS Bandwidth): 686.43 kHz

LIMIT SUBCLAUSE 15.247(e) – 5.2.a)

Under normal test conditons	6 dB Bandwidth at least 500 kHz
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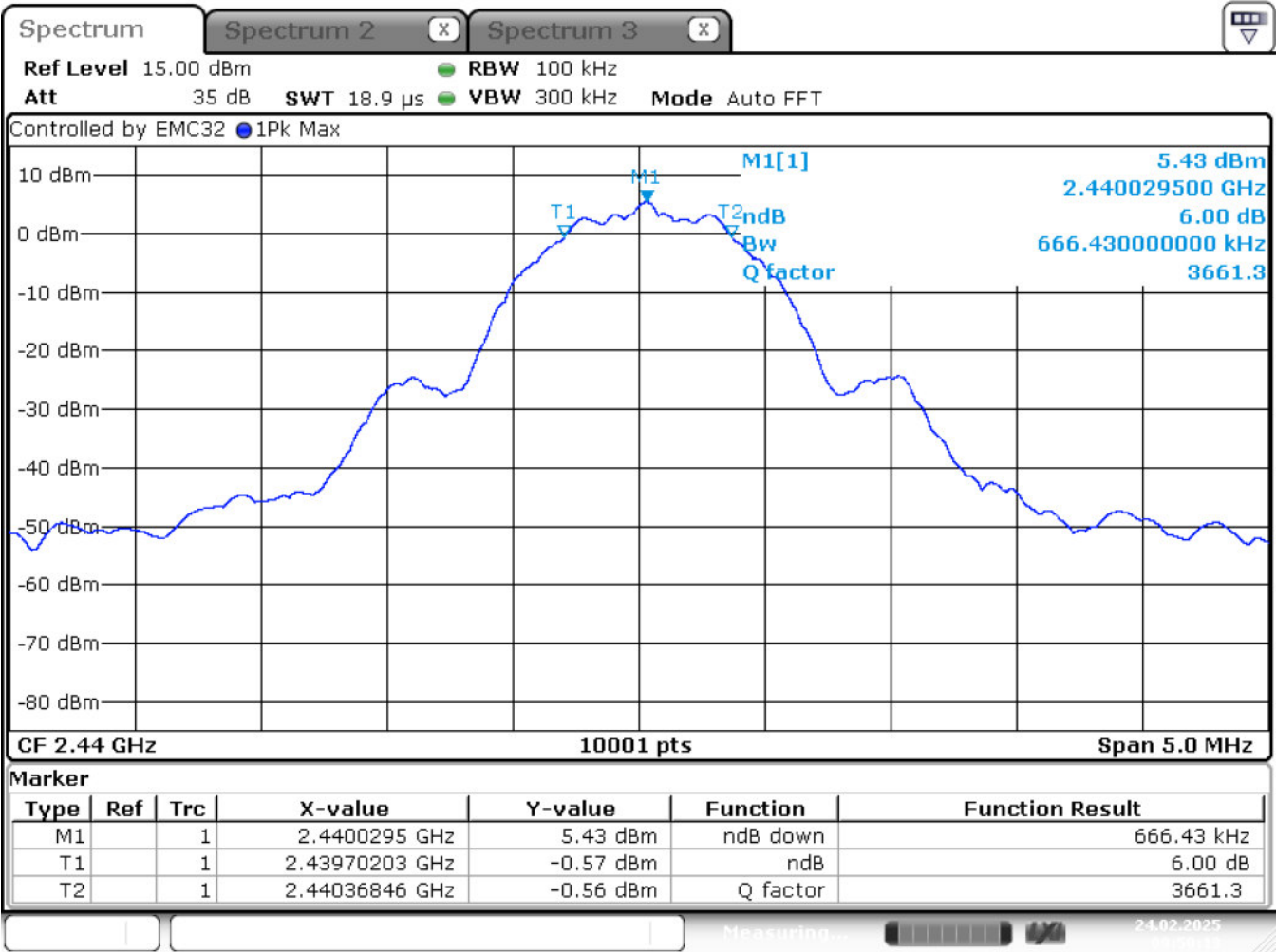
Test Equipment used: EMV-205;

6 dB Bandwidth

§ 15.247(a)(2)
5.2.a)

Conducted Measurement Antenna A

Rated output power: 4.72 mW 2440 MHz center frequency



Date: 24.FEB.2025 09:50:12

6dB Bandwidth (C63.10 DTS Bandwidth): 666.43 kHz

LIMIT SUBCLAUSE 15.247(e) – 5.2.a)

Under normal test conditons	6 dB Bandwidth at least 500 kHz
-----------------------------	---------------------------------

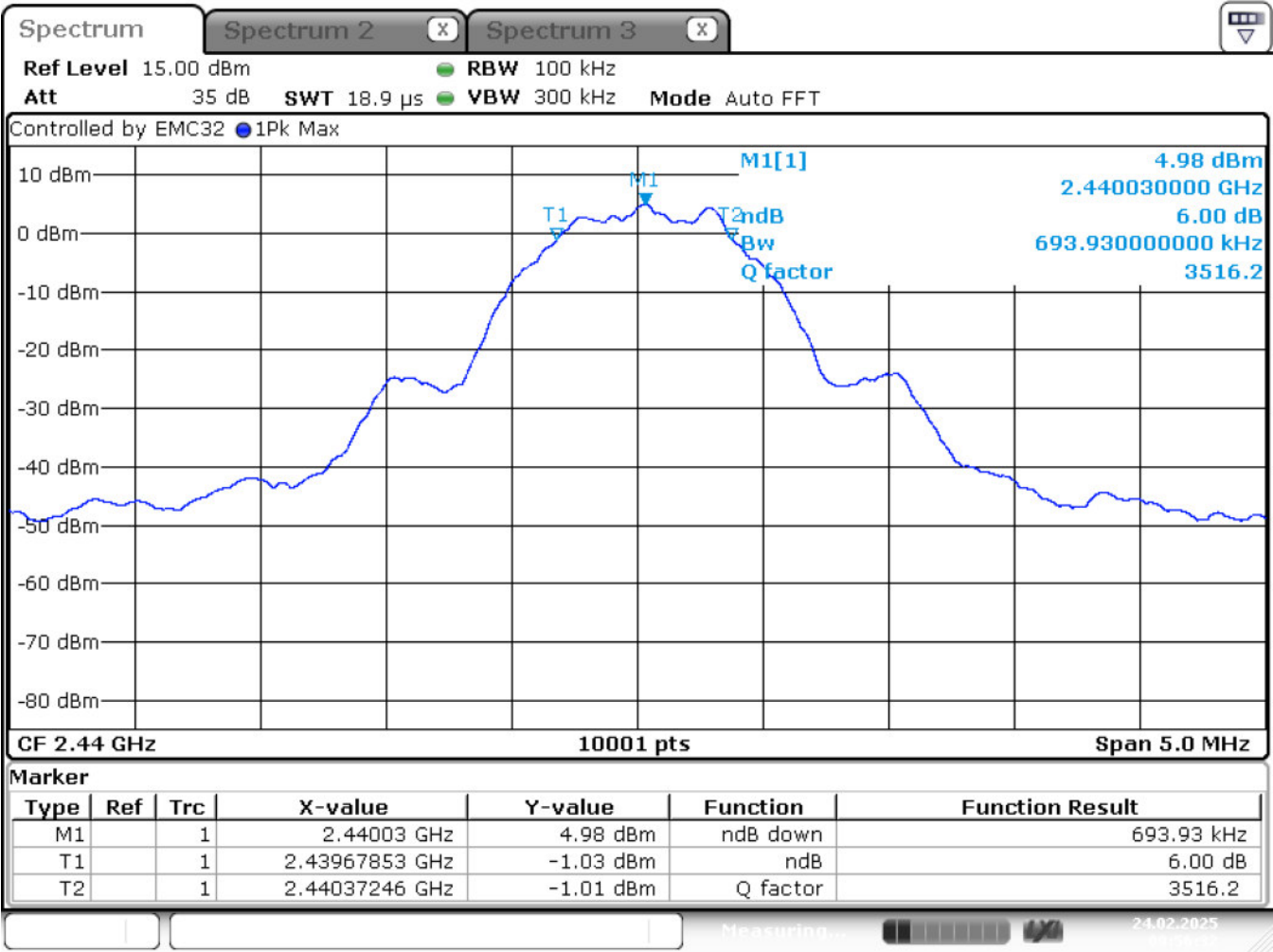
Test Equipment used: EMV-205;

6 dB Bandwidth

§ 15.247(a)(2)
5.2.a)

Conducted Measurement Antenna B

Rated output power: 4.72 mW 2440 MHz center frequency



Date: 24.FEB.2025 09:56:32

6dB Bandwidth (C63.10 DTS Bandwidth): 693.93 kHz

LIMIT SUBCLAUSE 15.247(e) – 5.2.a)

Under normal test conditons	6 dB Bandwidth at least 500 kHz
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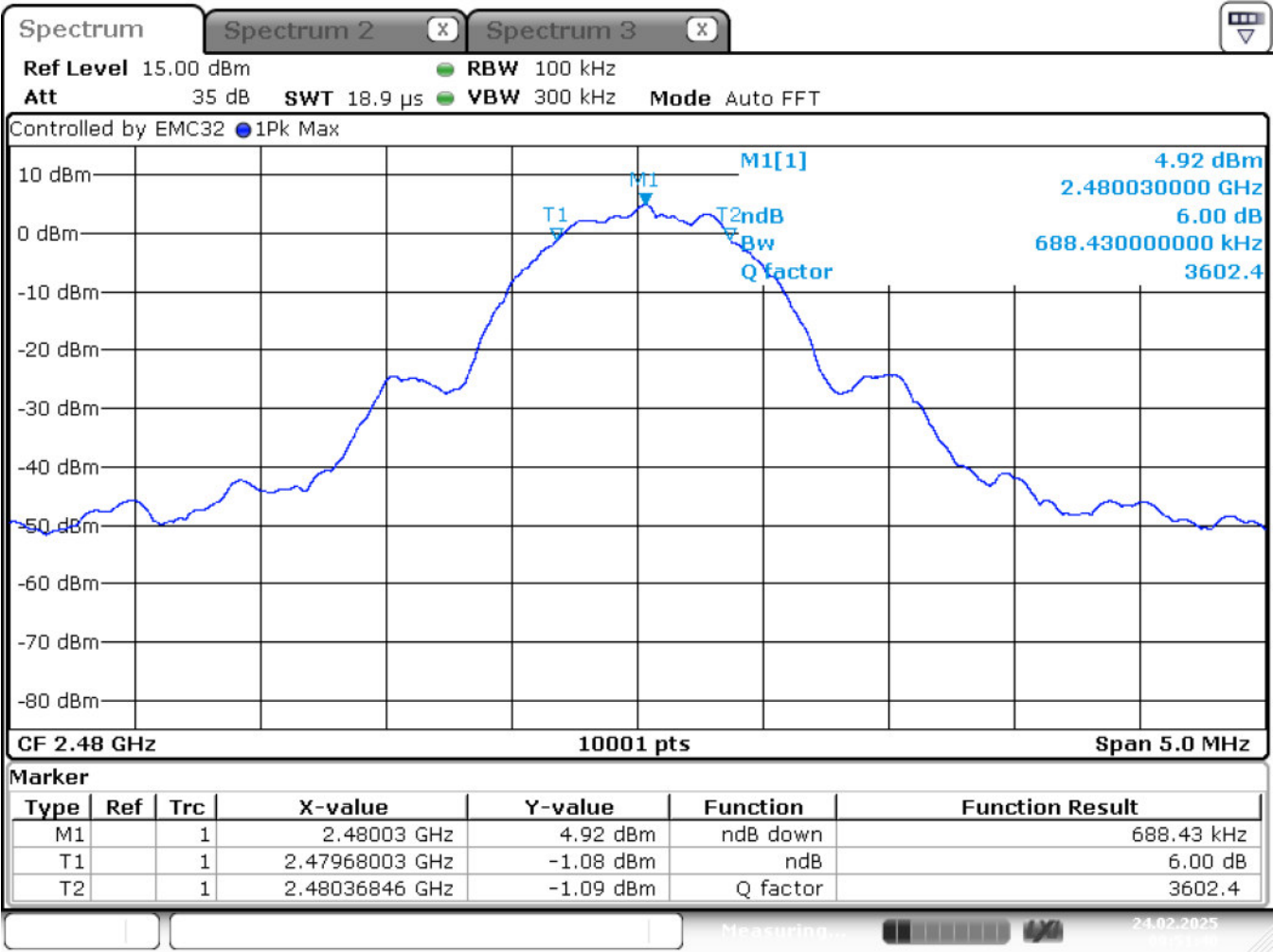
Test Equipment used: EMV-205;

6 dB Bandwidth

§ 15.247(a)(2)
5.2.a)

Conducted Measurement Antenna A

Rated output power: 4.72 mW 2480 MHz center frequency



Date: 24.FEB.2025 09:51:40

6dB Bandwidth (C63.10 DTS Bandwidth): 688.43 kHz

LIMIT SUBCLAUSE 15.247(e) – 5.2.a)

Under normal test conditons	6 dB Bandwidth at least 500 kHz
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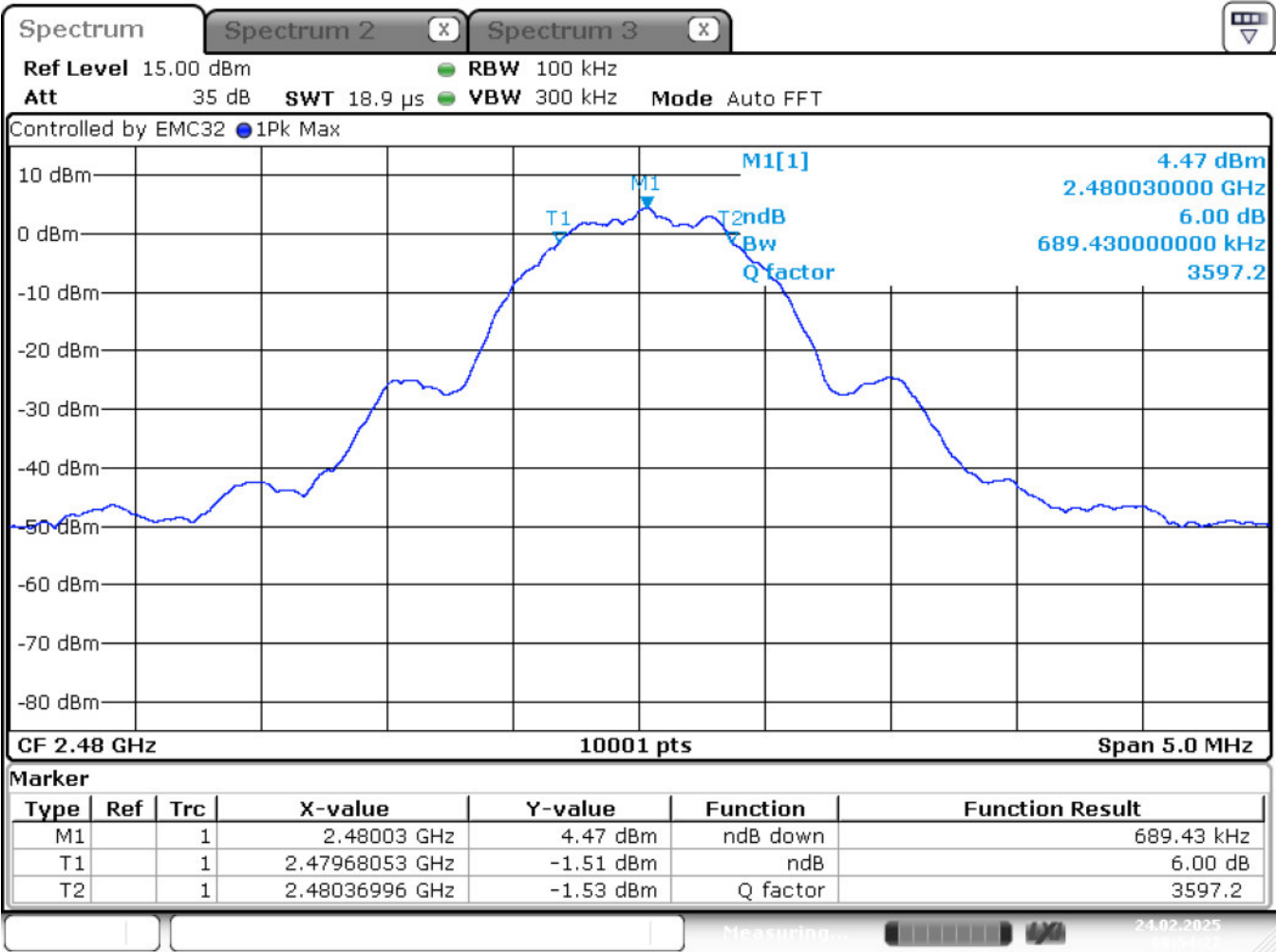
Test Equipment used: EMV-205;

6 dB Bandwidth

§ 15.247(a)(2)
5.2.a)

Conducted Measurement Antenna B

Rated output power: 4.72 mW 2480 MHz center frequency



Date: 24.FEB.2025 09:54:27

6dB Bandwidth (C63.10 DTS Bandwidth): 689.43 kHz

LIMIT SUBCLAUSE 15.247(e) – 5.2.a)

Under normal test conditons	6 dB Bandwidth at least 500 kHz
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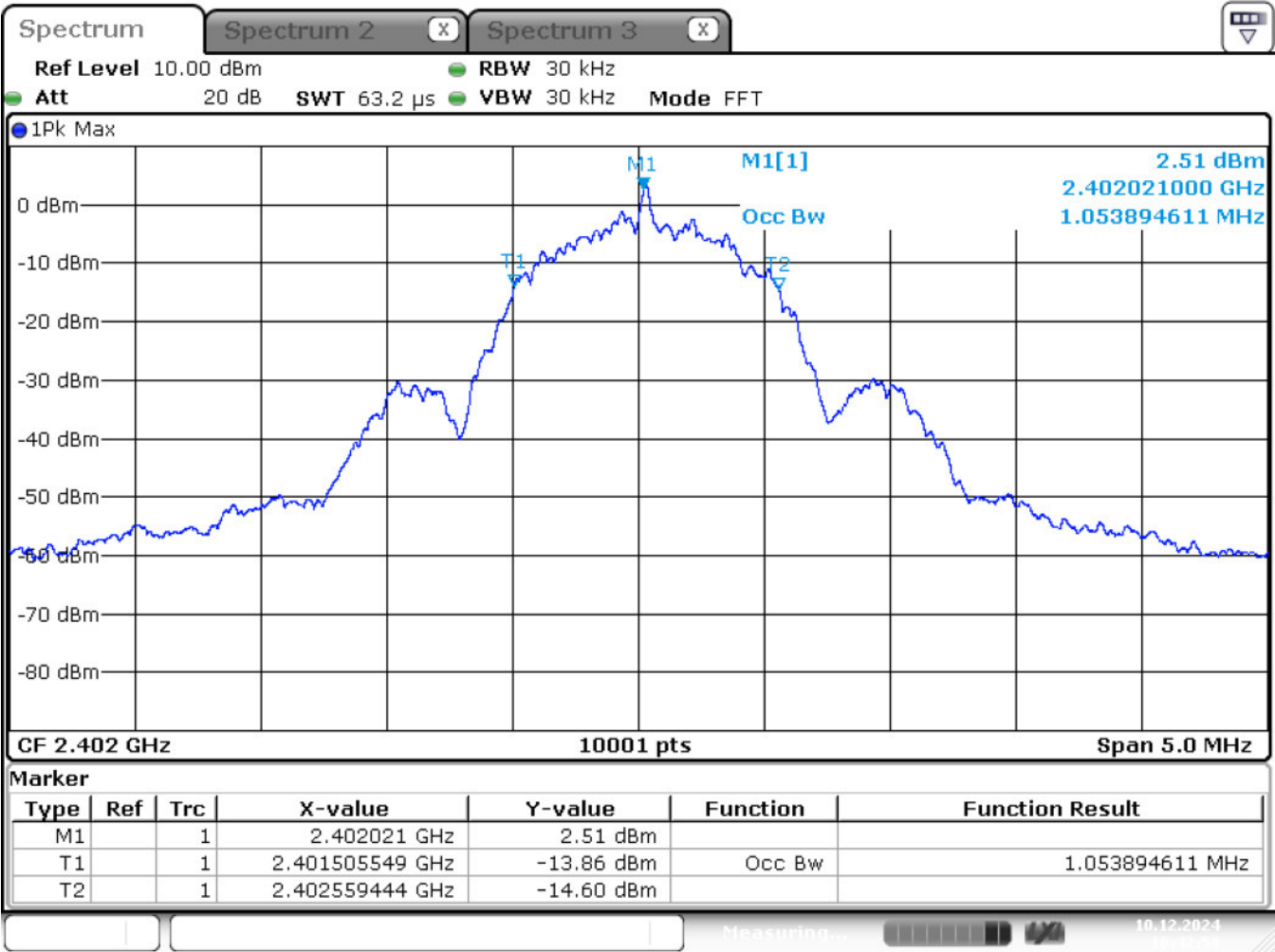
Test Equipment used: EMV-205;

4.4. 99% Bandwidth

RSS 247

Conducted Measurement Antenna A

Rated output power: 4.72 mW 2402 MHz center frequency



Date: 10.DEC.2024 10:43:00

99% Bandwidth: 1053.89 kHz

LIMIT RSS 247

None; for IC reporting purposes only

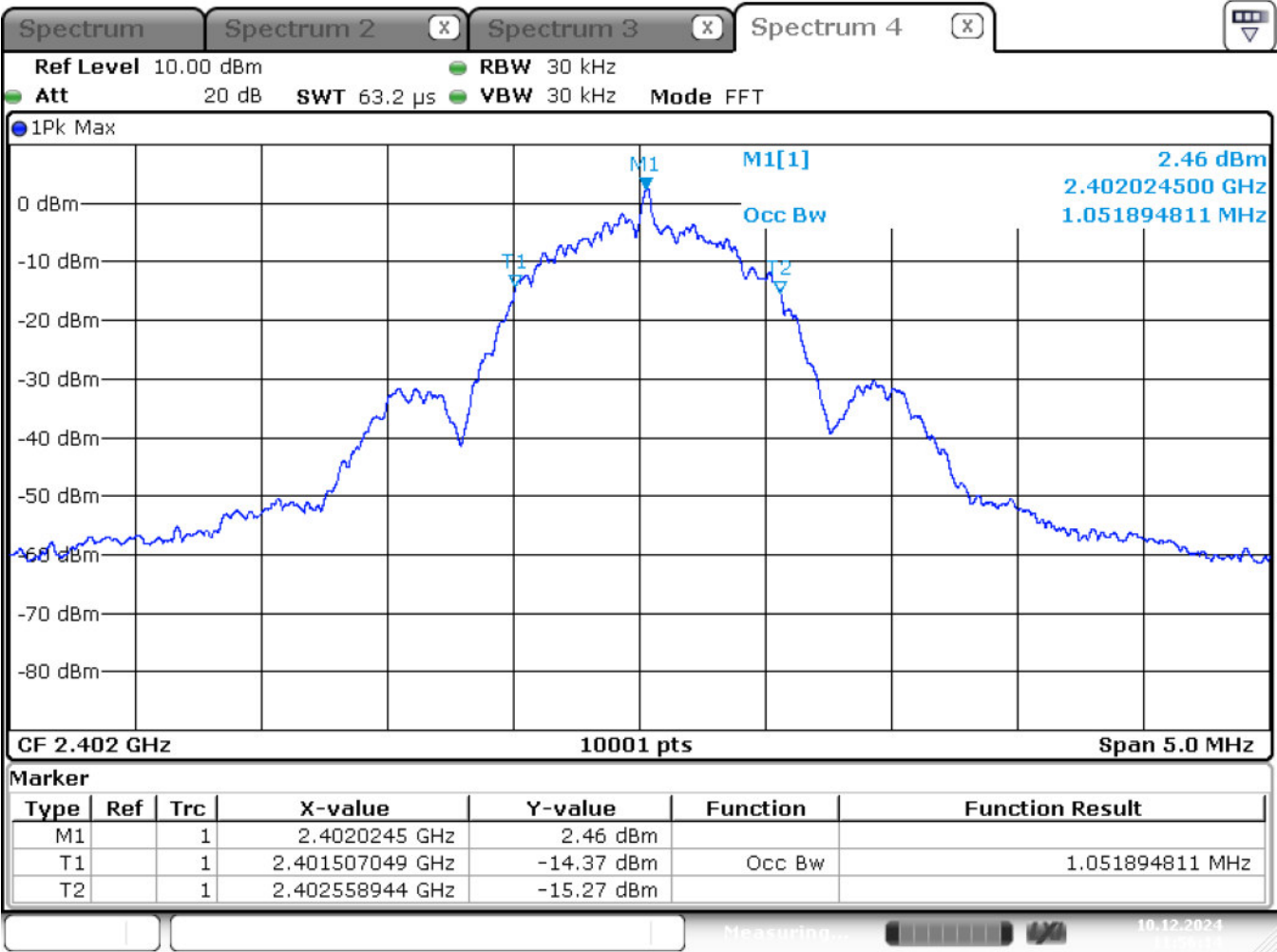
Test Equipment used: EMV-205;

99% Bandwidth

RSS 247

Conducted Measurement Antenna B

Rated output power: 4.72 mW 2402 MHz center frequency



Date: 10.DEC.2024 11:56:15

99% Bandwidth: 1051.89 kHz

LIMIT RSS 247

None; for IC reporting purposes only

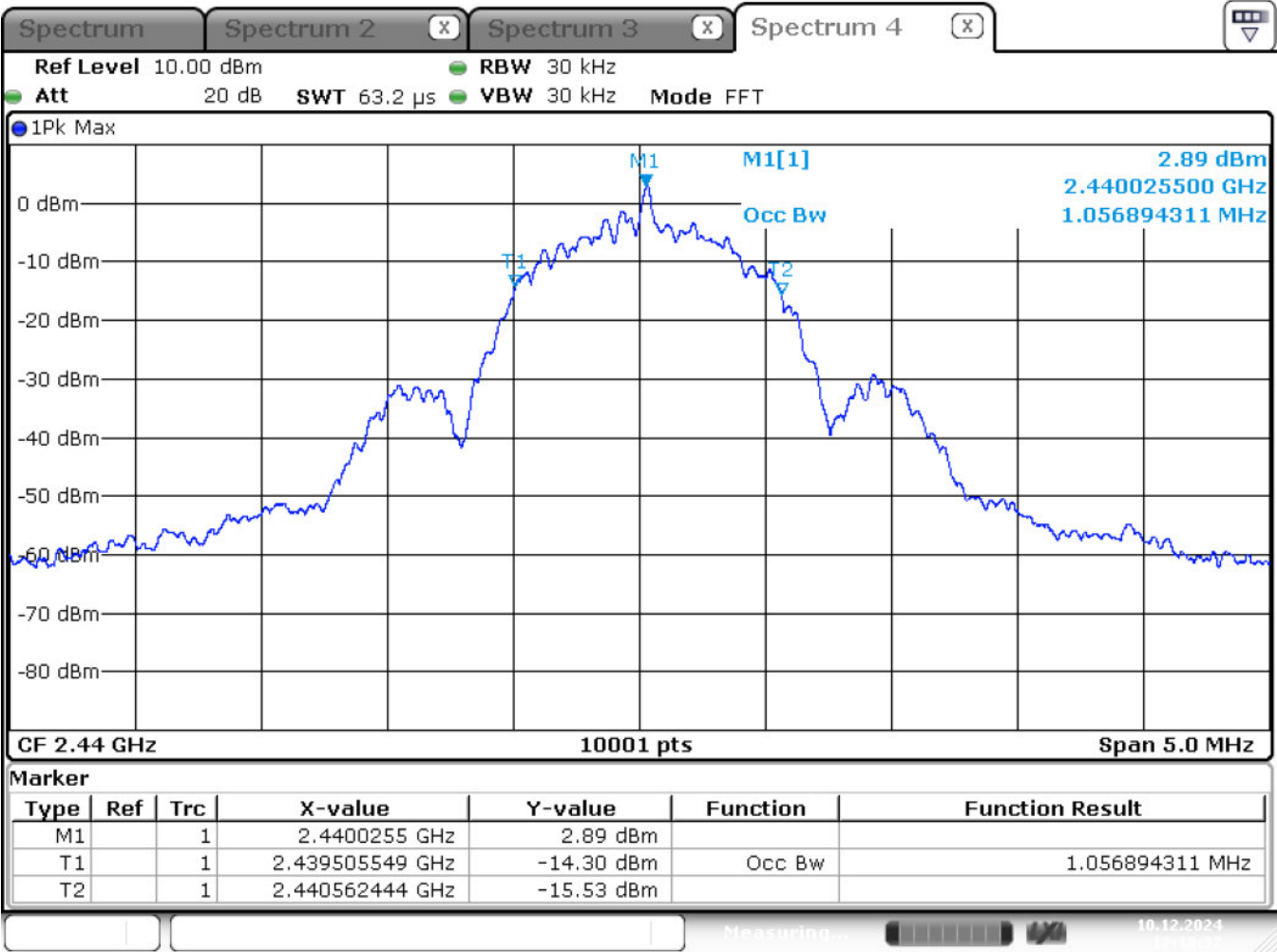
Test Equipment used: EMV-205;

99% Bandwidth

RSS 247

Conducted Measurement Antenna A

Rated output power: 4.72 mW 2440 MHz center frequency



Date: 10.DEC.2024 12:18:37

99% Bandwidth: 1056.89 kHz

LIMIT RSS 247

None; for IC reporting purposes only

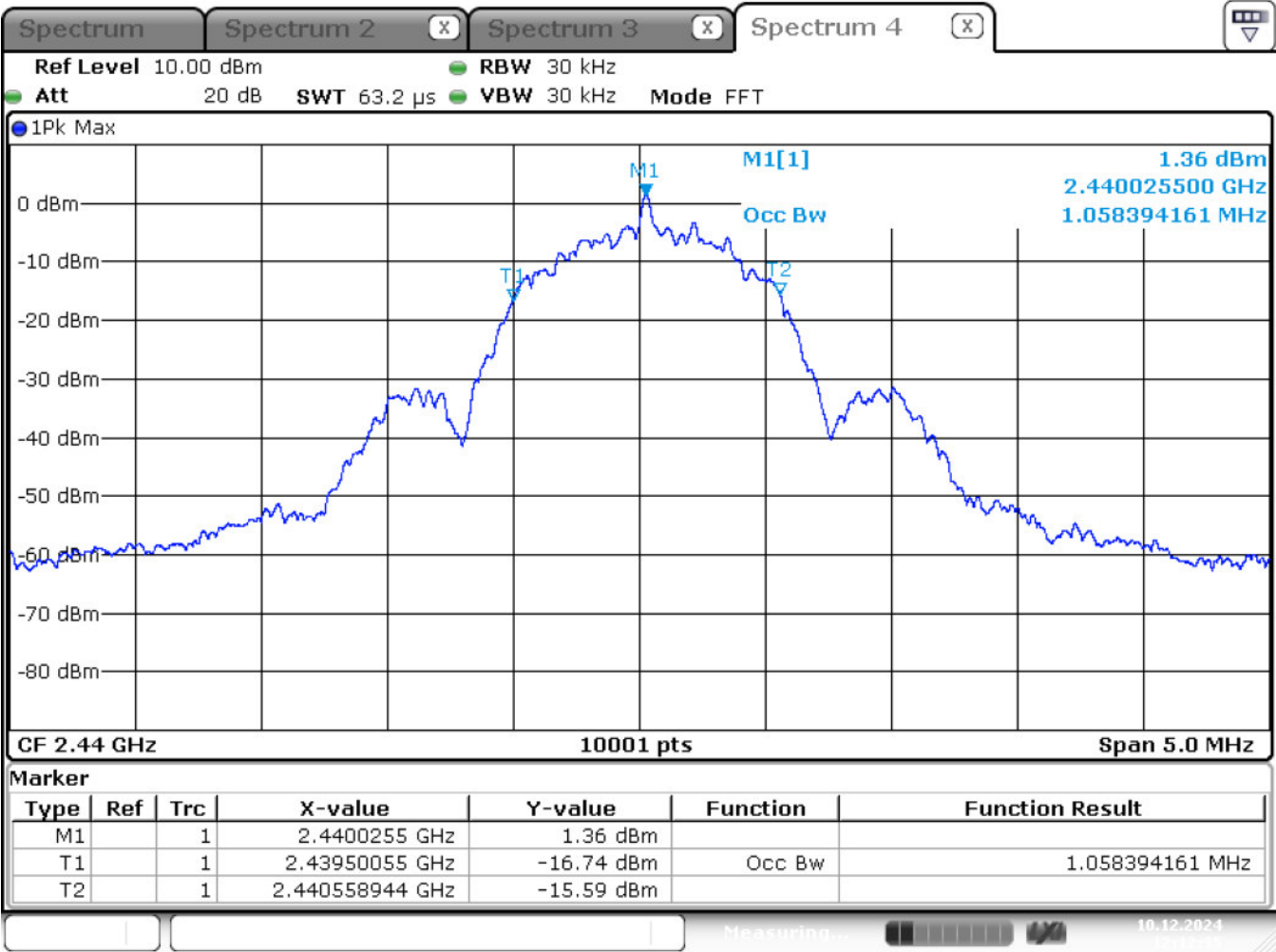
Test Equipment used: EMV-205;

99% Bandwidth

RSS 247

Conducted Measurement Antenna B

Rated output power: 4.72 mW 2440 MHz center frequency



Date: 10.DEC.2024 12:12:35

99% Bandwidth: 1058.39 kHz

LIMIT RSS 247

None; for IC reporting purposes only

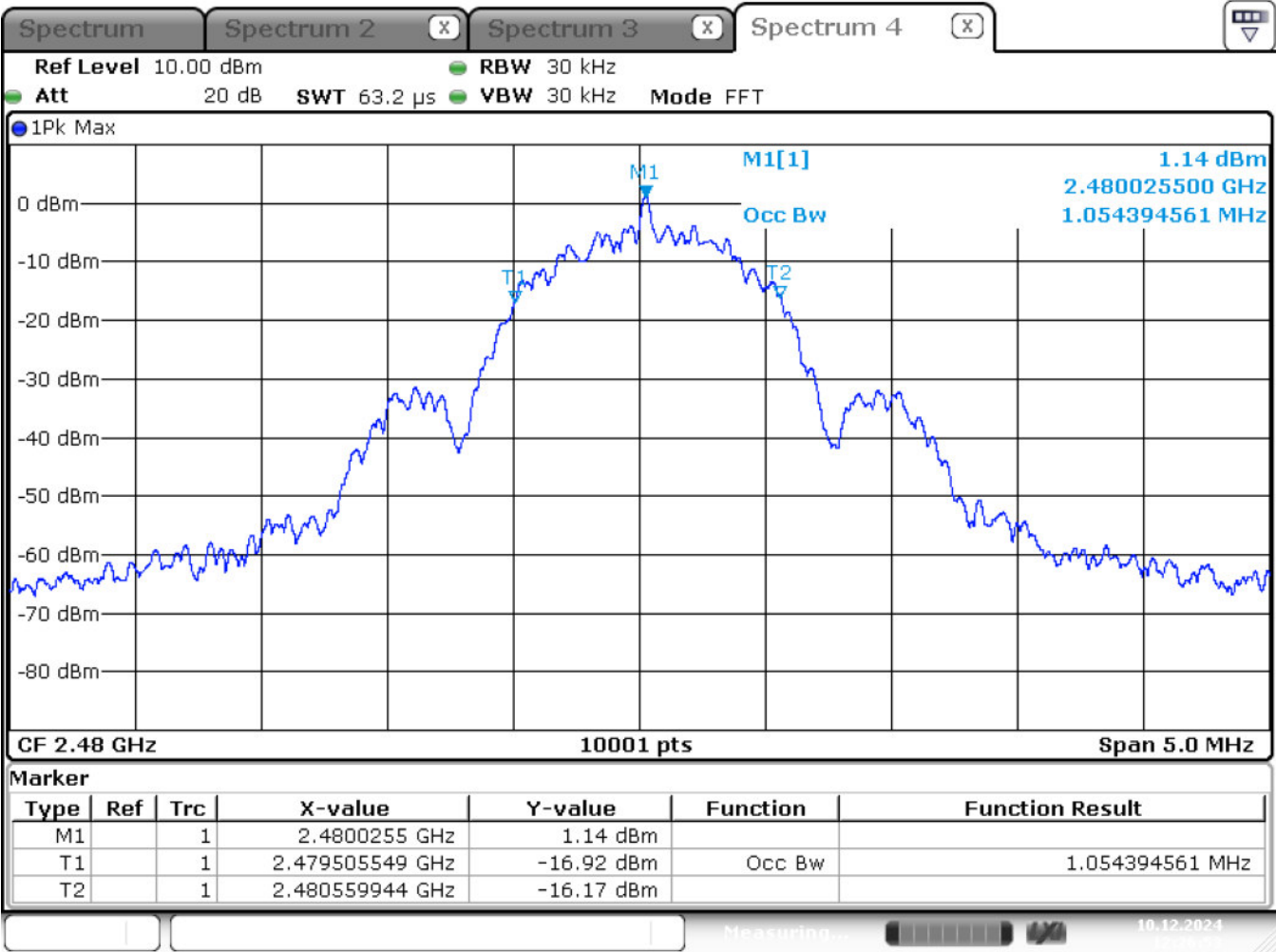
Test Equipment used: EMV-205;

99% Bandwidth

RSS 247

Conducted Measurement Antenna A

Rated output power: 4.72 mW 2480 MHz center frequency



Date: 10.DEC.2024 12:26:53

99% Bandwidth: 1054.39 kHz

LIMIT RSS 247

None; for IC reporting purposes only

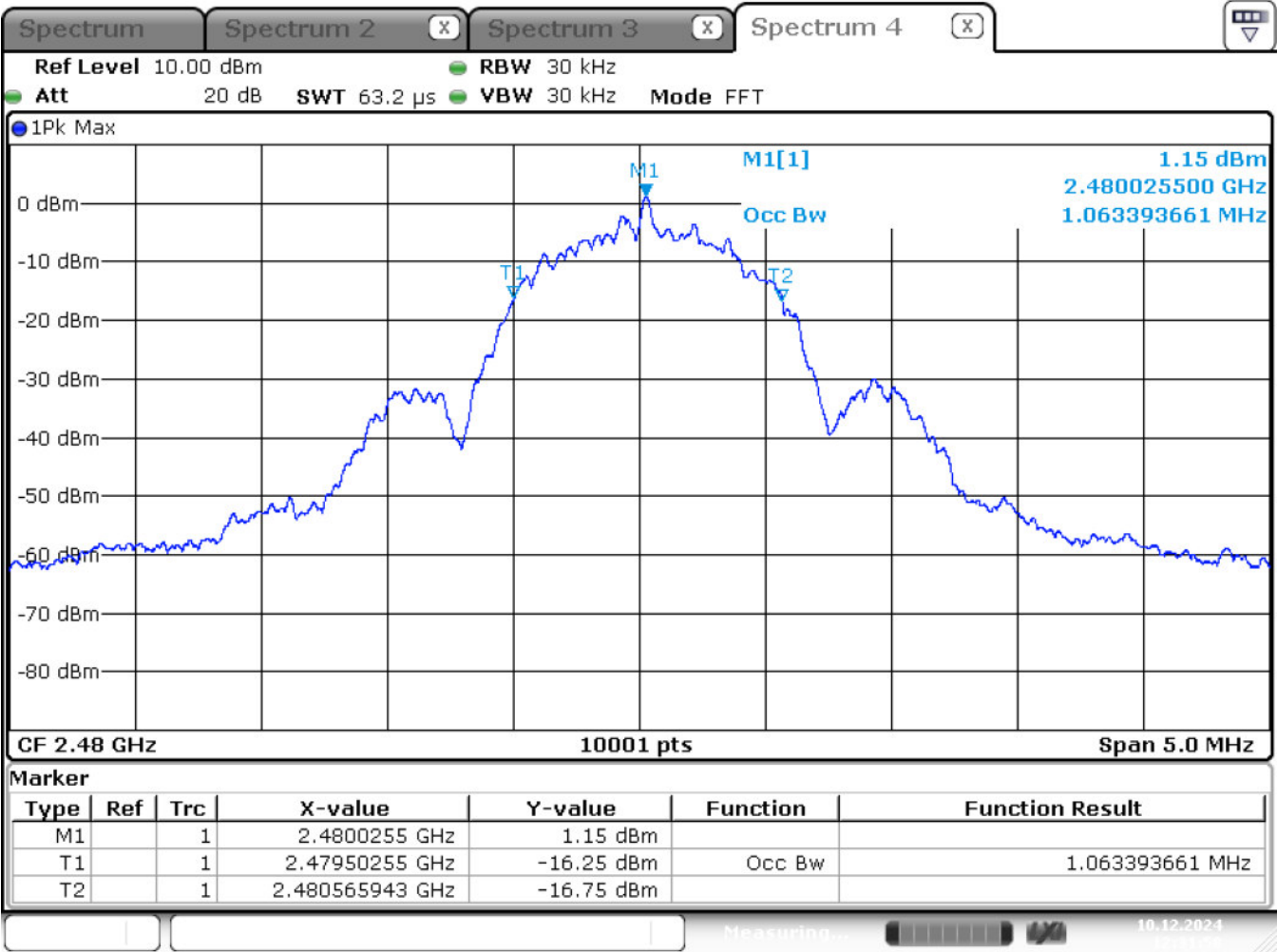
Test Equipment used: EMV-205;

99% Bandwidth

RSS 247

Conducted Measurement Antenna B

Rated output power: 4.72 mW 2480 MHz center frequency



Date: 10.DEC.2024 12:31:58

99% Bandwidth: 1063.39 kHz

LIMIT RSS 247

None; for IC reporting purposes only

Test Equipment used: EMV-205;

4.5. Maximum Peak RF Power Output

§ 15.247(b)(3)
5.4.4

Antenna A

Conducted Measurement

Measuring apparatus parameters

Parameter	RBW	VBW	Detector
Setting	1 MHz	3 MHz	Max-Peak

Rated output power: 4.72 mW

Test conditions		Transmitter power (mW)		
		2402 MHz	2440 MHz	2480 MHz
T _{nom} (23) °C	V _{nom} (9) V	3.15	3.13	2.74
Measurement uncertainty		± 0,75 dB		

Radiated Measurement

Measuring apparatus parameters see section 4.7

Rated output power: 4.72 mW

Test conditions		Transmitter power (mW) EIRP		
		2402 MHz	2440 MHz	2480 MHz
T _{nom} (23) °C	V _{nom} (9) V	4.72	3.61	3.65
Measurement uncertainty		± 2 dB		

Maximum Gain derived from EIRP and conducted measurement:		Maximum Gain (dBi)		
Test condition		2402 MHz	2440 MHz	2480 MHz
T _{nom} 23 °C	V _{nom} (9)V	1.76	0.62	1.25

LIMIT **SUBCLAUSE 15.247(b)(3) – 5.4.4**

Under normal test conditons	1W conducted (4W eirp)
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Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-139; NT-207/1; NT-520/1; EMV-205



Maximum Peak RF Power Output

§ 15.247(b)(3)
5.4.4

Antenna B

Conducted Measurement

Measuring apparatus parameters

Parameter	RBW	VBW	Detector
Setting	1 MHz	3 MHz	Max-Peak

Rated output power: 4.72 mW

Test conditions		Transmitter power (mW)		
		2402 MHz	2440 MHz	2480 MHz
T _{nom} (23) °C	V _{nom} (9) V	2.92	2.84	2.49
Measurement uncertainty		± 0,75 dB		

Radiated Measurement

Measuring apparatus parameters see section 4.7

Rated output power: 4.72 mW

Test conditions		Transmitter power (mW) EIRP		
		2402 MHz	2440 MHz	2480 MHz
T _{nom} (23) °C	V _{nom} (9) V	4.72	3.61	3.65
Measurement uncertainty		± 2 dB		

Maximum Gain derived from EIRP and conducted measurement:		Maximum Gain (dBi)		
Test condition		2402 MHz	2440 MHz	2480 MHz
T _{nom} 23 °C	V _{nom} (9)V	2.09	1.04	1.66

LIMIT **SUBCLAUSE 15.247(b)(3) – 5.4.4**

Under normal test conditons	1W conducted (4W eirp)
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Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-139; NT-207/1; NT-520/1; EMV-205

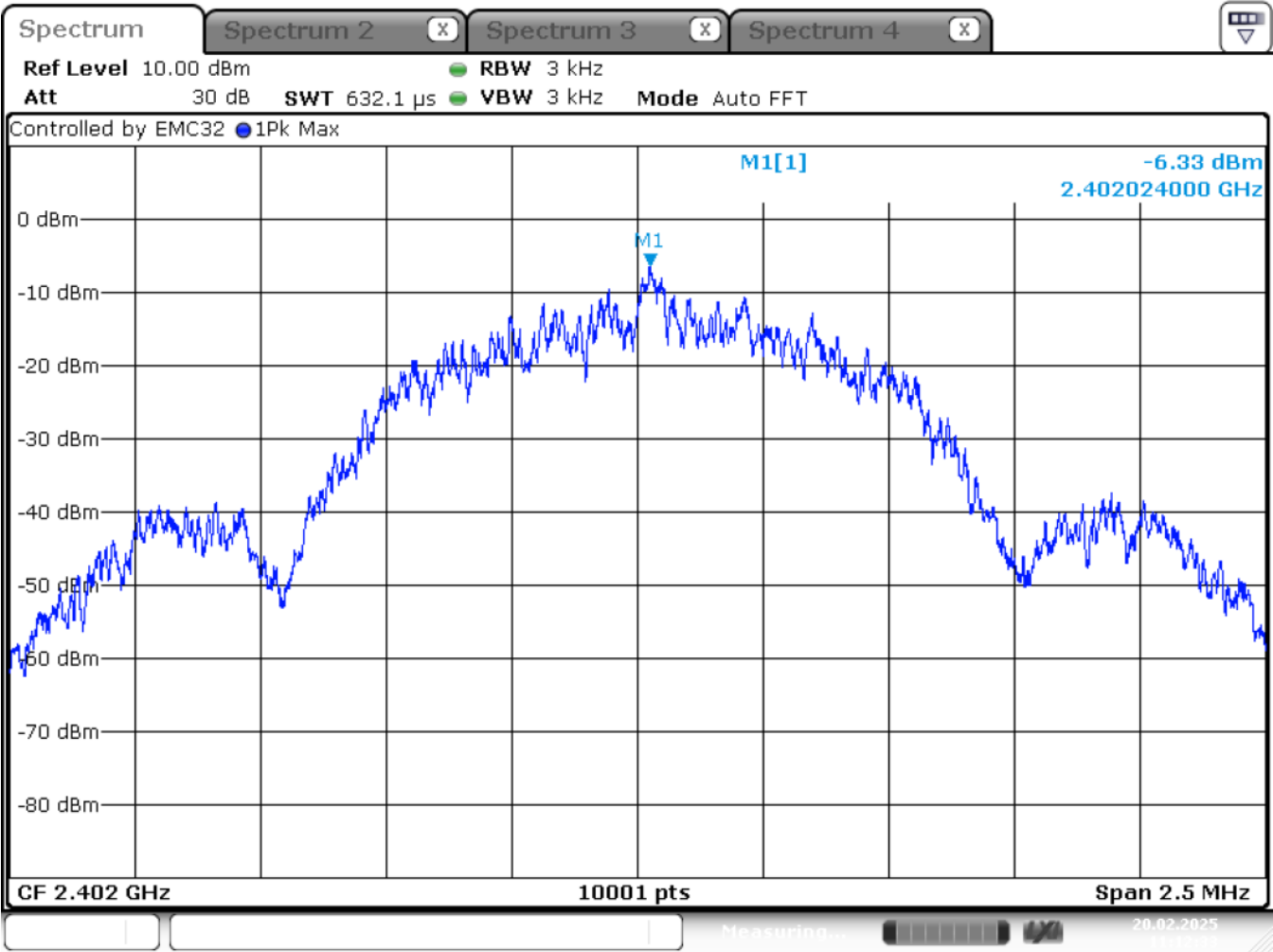


4.6. Power spectral density

§ 15.247(e)
5.2.2

Conducted Measurement Antenna A

Rated output power: 4.72 mW 2402 MHz center frequency



Date: 20.FEB.2025 11:12:33

Power Spectral density: -6.33 dBm @ 2402.02 MHz

LIMIT SUBCLAUSE 15.247(e) – 5.2 b)

Under normal test conditons	+8dBm in any 3 kHz band
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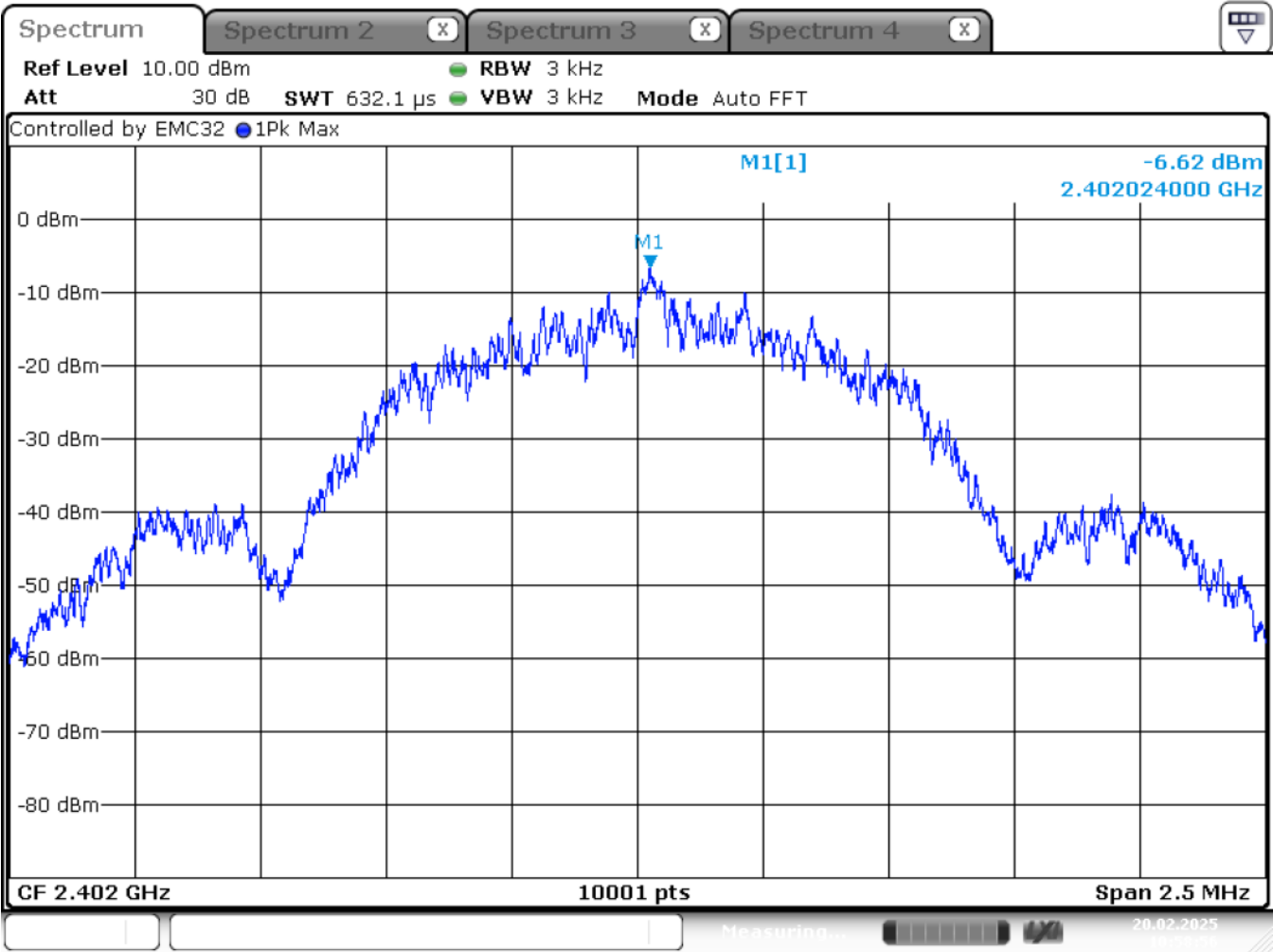
Test Equipment used: EMV-205;

Power spectral density

§ 15.247(e)
5.2.2

Conducted Measurement Antenna B

Rated output power: 4.72 mW 2402 MHz center frequency



Date: 20.FEB.2025 10:58:56

Power Spectral density: -6.62 dBm @ 2402.02 MHz

LIMIT SUBCLAUSE 15.247(e) – 5.2 b)

Under normal test conditons	+8dBm in any 3 kHz band
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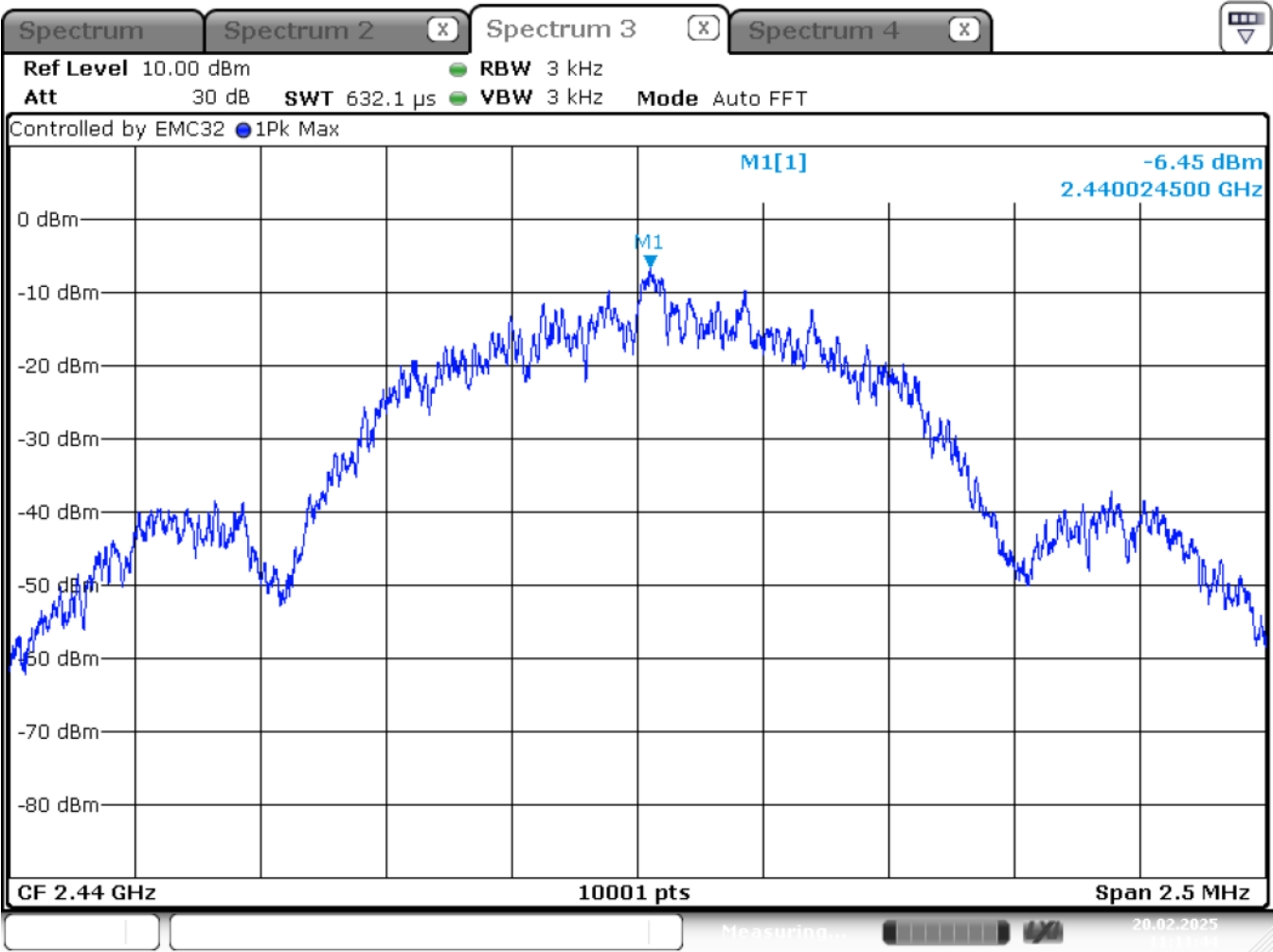
Test Equipment used: EMV-205;

Power spectral density

§ 15.247(e)
5.2 b)

Conducted Measurement Antenna A

Rated output power: 4.72 mW 2440 MHz center frequency



Date: 20.FEB.2025 11:11:45

Power Spectral density: -6.45 dBm @ 2440.02 MHz

LIMIT SUBCLAUSE 15.247(e) – 5.2 b)

Under normal test conditons	+8dBm in any 3 kHz band
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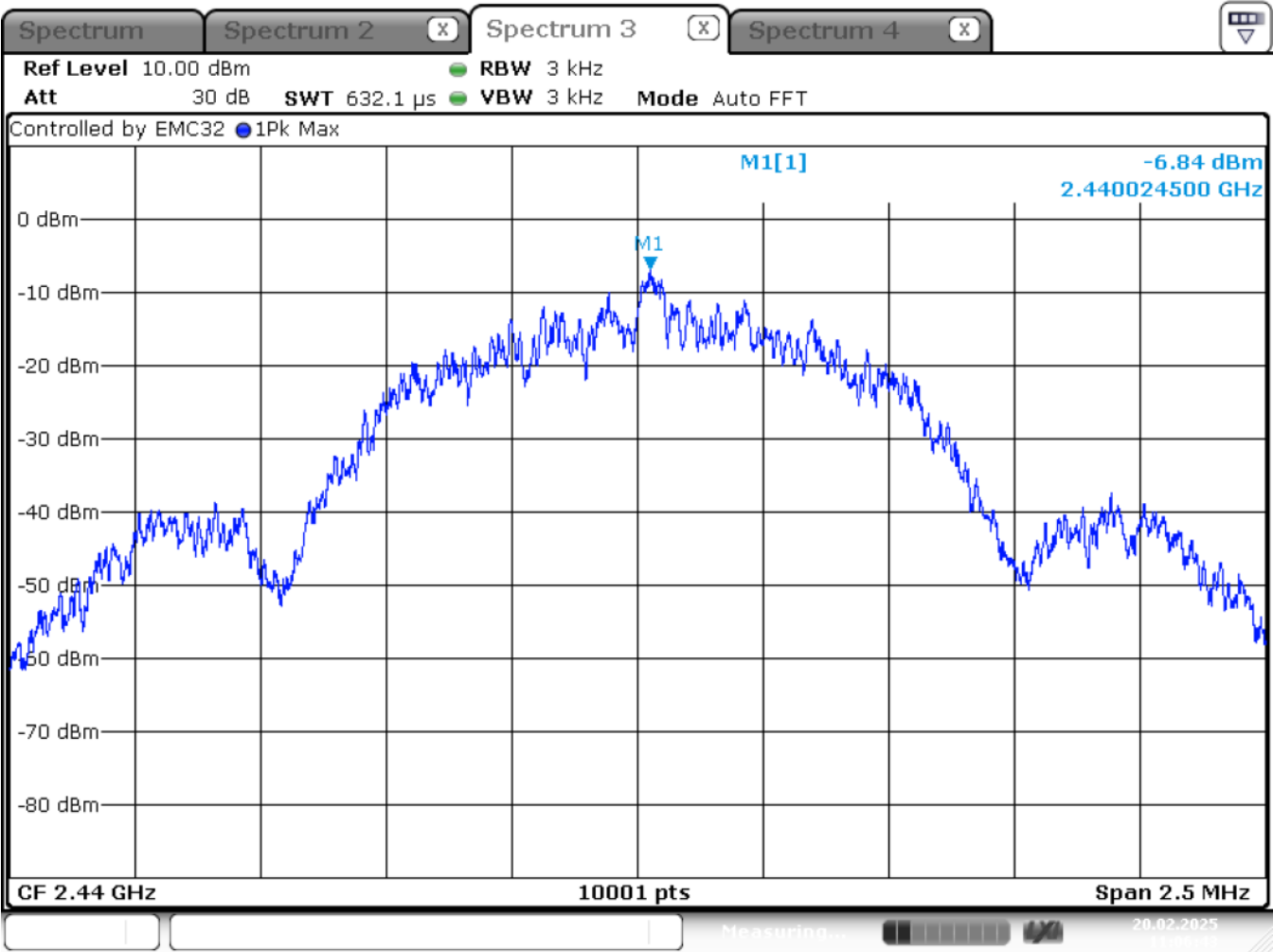
Test Equipment used: EMV-205;

Power spectral density

§ 15.247(e)
5.2 b)

Conducted Measurement Antenna B

Rated output power: 4.72 mW 2440 MHz center frequency



Date: 20.FEB.2025 11:06:44

Power Spectral density: -6.84 dBm @ 2440.02 MHz

LIMIT SUBCLAUSE 15.247(e) – 5.2 b)

Under normal test conditons	+8dBm in any 3 kHz band
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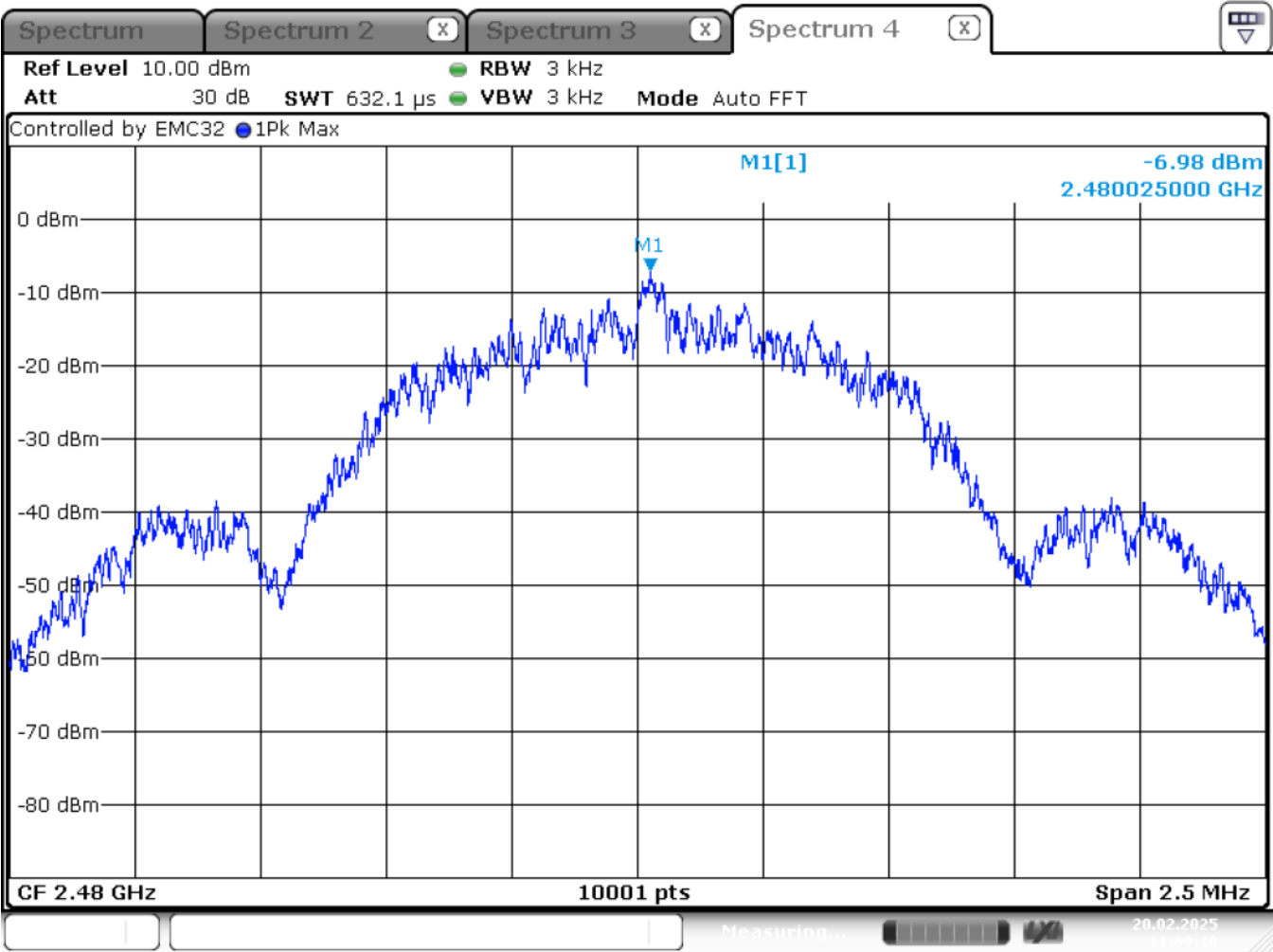
Test Equipment used: EMV-205;

Power spectral density

§ 15.247(e)
5.2 b)

Conducted Measurement Antenna A

Rated output power: 4.72 mW 2480 MHz center frequency



Date: 20.FEB.2025 11:09:11

Power Spectral density: -6.98 dBm @ 2480.03 MHz

LIMIT SUBCLAUSE 15.247(e) – 5.2 b)

Under normal test conditons	+8dBm in any 3 kHz band
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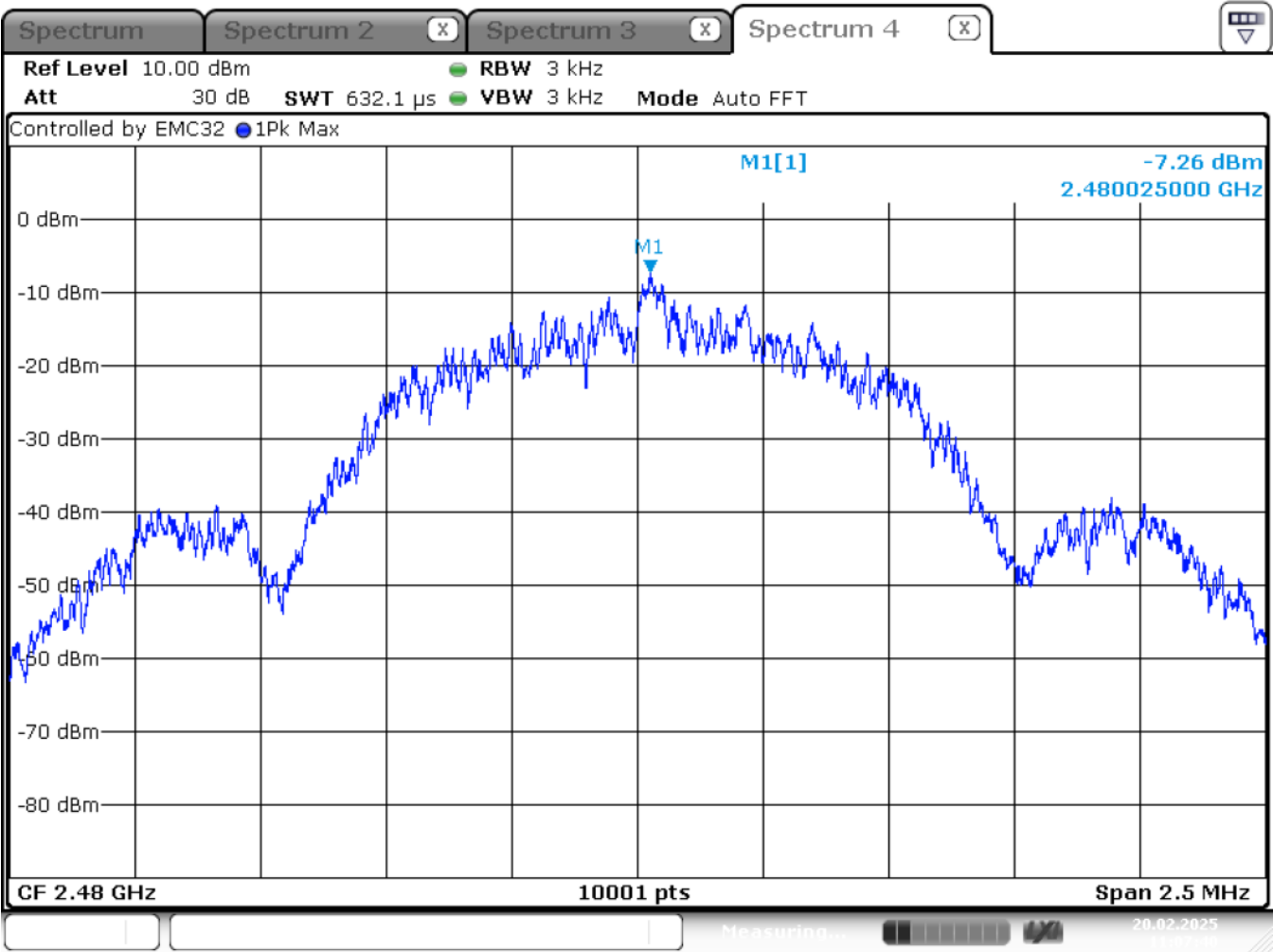
Test Equipment used: EMV-205;

Power spectral density

§ 15.247(e)
5.2 b)

Conducted Measurement Antenna B

Rated output power: 4.72 mW 2480 MHz center frequency



Date: 20.FEB.2025 11:07:40

Power Spectral density: -7.26 dBm @ 2480.03 MHz

LIMIT SUBCLAUSE 15.247(e) – 5.2 b)

Under normal test conditons	+8dBm in any 3 kHz band
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Test Equipment used: EMV-205;

4.7. Emissions in restricted bands

Emissions falling within restricted frequency bands

§ 15.209(a)
RSS-Gen

Measuring apparatus parameters 9 kHz to 150 kHz

Parameter	Preview measurement	Final measurement	Parameter	Preview measurement	Final measurement
Start frequency	9 kHz	9 kHz	Detector	Max Peak	Quasi Peak
Stop frequency	150 kHz	150 kHz	Measuring time	10 ms	1 s
Stepsize	50 Hz	50 Hz	RF-attenuation	0dB	0dB
IF- Bandwidth	200 Hz	200 Hz	Preamplifier	20 dB	20 dB

Measuring apparatus parameters 150 kHz to 30 MHz

Parameter	Preview measurement	Final measurement	Parameter	Preview measurement	Final measurement
Start frequency	150 kHz	150 kHz	Detector	Max Peak	Quasi Peak
Stop frequency	30 MHz	30 MHz	Measuring time	10 ms	1 s
Stepsize	2.25 kHz	2.25 kHz	RF-attenuation	0dB	0dB
IF- Bandwidth	9 kHz	9 kHz	Preamplifier	20 dB	20 dB

Measuring apparatus parameters 30 MHz to 1000 MHz

Parameter	Preview measurement	Final measurement	Parameter	Preview measurement	Final measurement
Start frequency	30 MHz	30 MHz	Detector	Max Peak	Quasi Peak
Stop frequency	1000 MHz	1000 MHz	Measuring time	10 ms	1 s
Stepsize	30 kHz	30 kHz	RF-attenuation	0dB	0dB
IF- Bandwidth	120 kHz	120 kHz	Preamplifier	20 dB	20 dB

Measuring apparatus parameters 1 GHz to 25 GHz

Parameter	Preview measurement	Final measurement	Parameter	Preview measurement	Final measurement
Start frequency	1 GHz	1 GHz	Detector	Max Peak / Average	Max Peak / Average
Stop frequency	25 GHz	25 GHz	Measuring time	100 ms	100 ms
Stepsize	250 kHz	250 kHz	RF-attenuation	0dB	0dB
IF- Bandwidth	1 MHz	1 MHz	Preamplifier	20 dB	20 dB

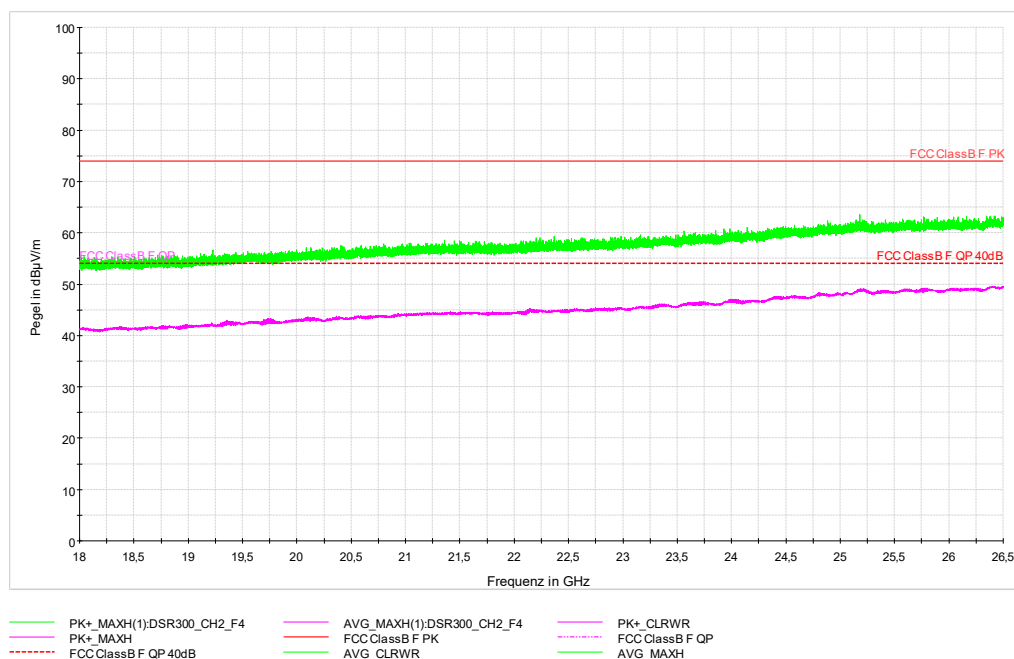
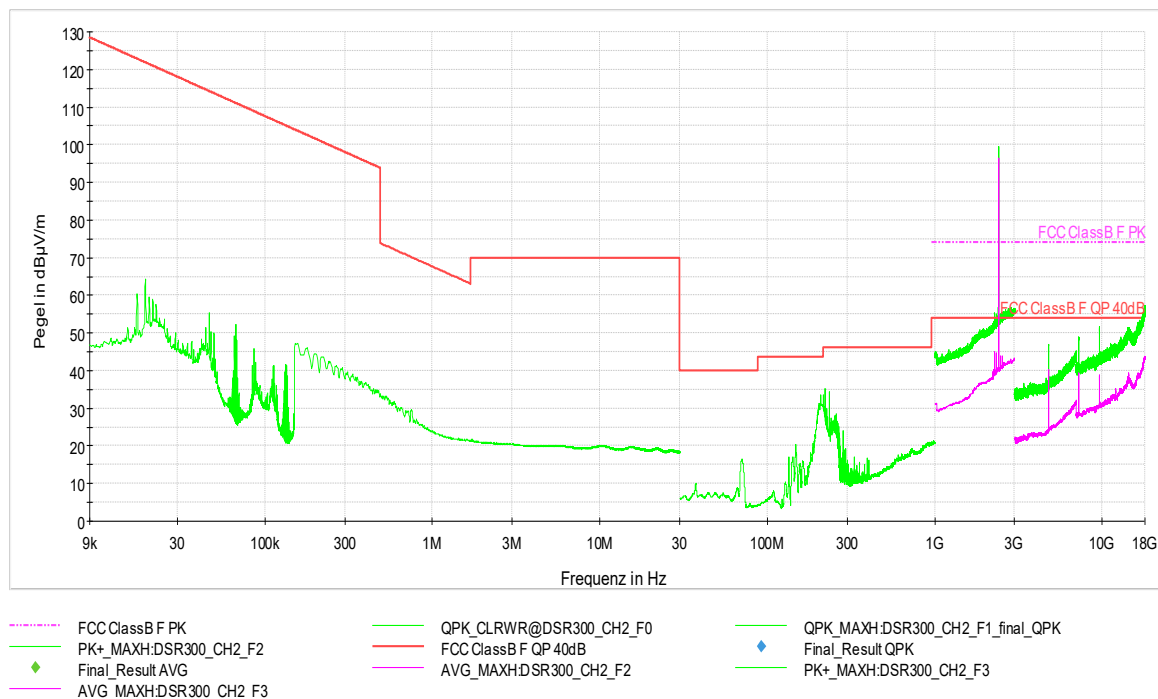
Grundvorlage / Basic Template: FM-TAGMBH-KBS-0100b_Grundvorlage Prüfbericht akkreditiert-EN, Rev. 04

Emissions in restricted bands Emissions falling within restricted frequency bands

§ 15.209(a)
RSS-Gen

Measurement above 1 GHz are with Peak-Detector (green line) and Average-Detector (magenta line):

Setup: CH 2: 2402 MHz, both antennas



Worst case emission: Average @ 2338 MHz: 44.62 dBµV/m

Grundvorlage / Basic Template: FM-TAGMBH-KBS-0100b_Grundvorlage Prüfbericht akkreditiert-EN, Rev. 04

LIMIT SUBCLAUSE 15.209(a) – RSS-Gen

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Measurement with QP-Detector (9 kHz - 1 GHz)

Frequency MHz	Level dBμV/m	Limit dBμV/m	Margin dB	Exceed-Mark
202.74	31.36	43.5	12.14	-
208.89	33.63	43.5	9.87	-
215.04	33.18	43.5	10.32	-
218.1	30.43	46	15.57	-
221.19	35.33	46	10.67	-
233.46	34.4	46	11.6	-

Measurement with PK-Detector (1 GHz - 18 GHz)

Frequency MHz	Level dBμV/m	Limit dBμV/m	Margin dB	Exceed-Mark
2273.75	55.5	74	18.5	-
2402	99.64	74	-25.64	X *
2856	56.79	74	17.21	-
4804	47.02	74	26.98	-
7205.25	48.99	74	25.01	-
9607.25	51.86	74	22.14	-
19925.25	57.41	74	16.59	-

*) 2402 MHz is the transmitting frequency of the used channel

Measurement with AVG-Detector (1 GHz - 18 GHz)

Frequency MHz	Level dBµV/m	Limit dBµV/m	Margin dB	Exceed- Mark
2274	43.03	54	10.97	-
2338	44.62	54	9.38	-
2402	96.4	54	-42.4	X*
2466	43.92	54	10.08	-
2530	43.83	54	10.17	-
4804	40.31	54	13.69	-
17983	43.57	54	10.43	-

*) 2402 MHz is the transmitting frequency of the used channel

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-122/1; NT-126; NT-131/1; NT-139; NT-207/1; NT-216; NT-337/1; NT-472; NT-511/1; NT-520/1; EMV-114

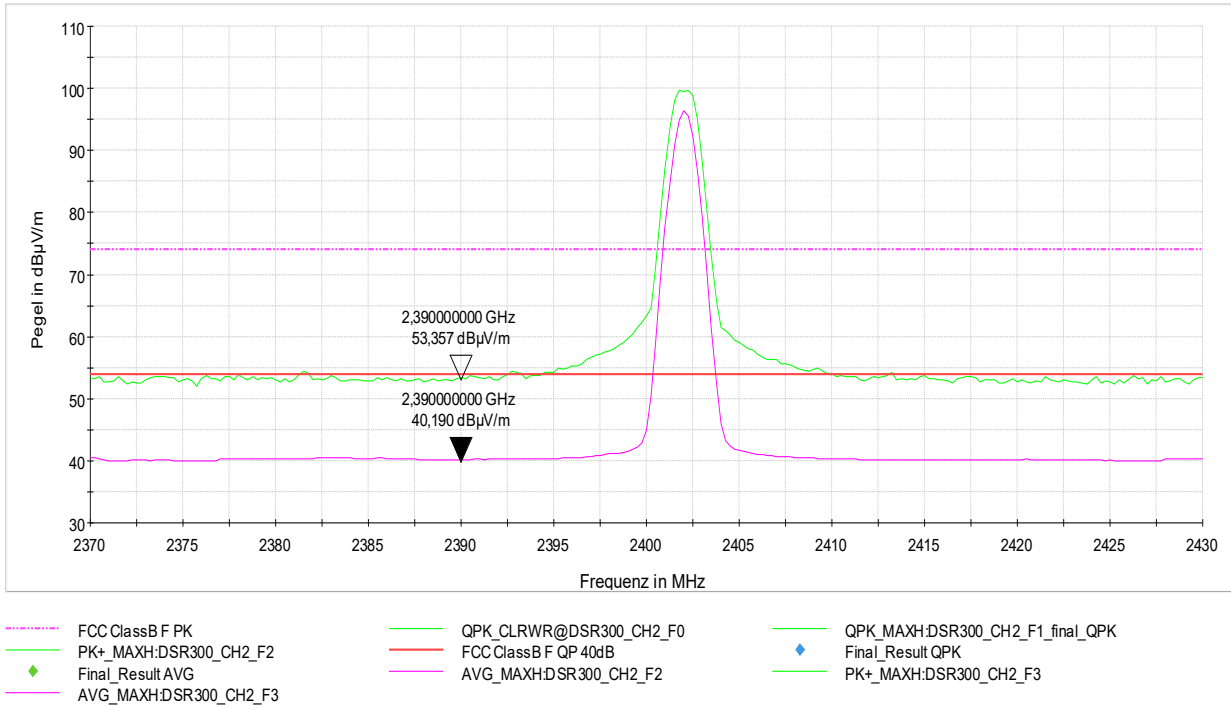


Emissions in restricted bands
Emissions falling within restricted frequency bands

§ 15.209(a)
RSS-Gen

Measurement with Peak-Detector (green line) and Average-Detector (magenta line): Band Edge requirement

Setup: CH 2: 2402 MHz, both antennas



Frequency band (§ 15.247): 2400-2483.5 MHz
The 20 dB bandwidth of the emission on the lowest channel is fully contained within the frequency band.

LIMIT SUBCLAUSE 15.209(a) – RSS-Gen

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Band edges of the nearest restricted bands: 2390 MHz and 2483,5 MHz.

Grundvorlage / Basic Template: FM-TAGMBH-KBS-0100b_Grundvorlage Prüfbericht akkreditiert-EN, Rev. 04

LIMIT

SUBCLAUSE 15.215(c)

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. 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 a 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.

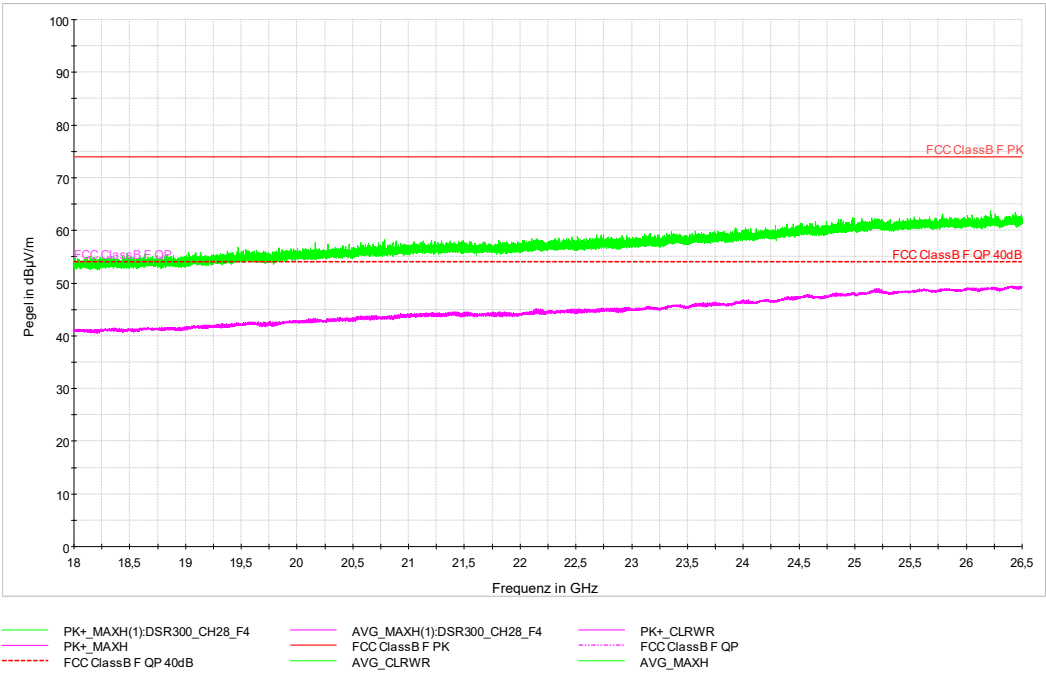
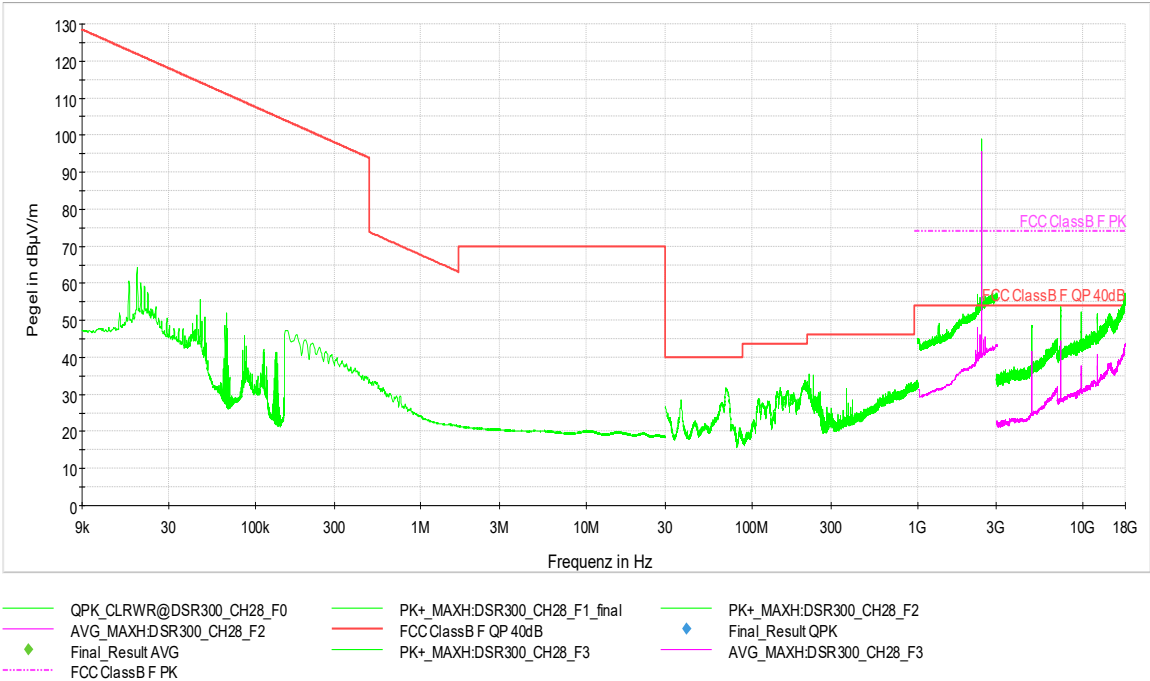
Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-122/1; NT-131/1; NT-139; NT-207/1; NT-216; NT-337/1; NT-472; NT-511/1; NT-520/1

Emissions in restricted bands
Emissions falling within restricted frequency bands

§ 15.209(a)
RSS-Gen

Measurement above 1 GHz are with Peak-Detector (green line) and Average-Detector (magenta line):

Setup: CH 28: 2440 MHz, both antennas



Worst case emission: Average @ 2312 MHz: 48.22 dBµV/m

Grundvorlage / Basic Template: FM-TAGMBH-KBS-0100b_Grundvorlage Prüfbericht akkreditiert-EN, Rev. 04

LIMIT SUBCLAUSE 15.209(a) – RSS-Gen

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Measurement with QP-Detector (9 kHz - 1 GHz)

Frequency MHz	Level dBμV/m	Limit dBμV/m	Margin dB	Exceed-Mark
37.29	28.57	40	11.43	-*
69.84	31.77	40	8.23	-*
208.86	33.84	46	12.16	*
215.07	33.61	46	12.39	-*
221.19	35.48	46	10.52	-*
233.46	35.21	46	10.79	-*

*) Measurement with Peak-Detector

Measurement with PK-Detector (1 GHz - 18 GHz)

Frequency MHz	Level dBμV/m	Limit dBμV/m	Margin dB	Exceed-Mark
2311.75	56.91	74	17.09	-
2376.25	56.2	74	17.8	-
2440	98.99	74	-24.99	X*
2997.5	57.44	74	16.56	-
7320.25	53.76	74	20.24	-
9760	52.15	74	21.85	-
17939.25	57.31	74	16.69	-

*) 2440 MHz is the transmitting frequency of the used channel

Measurement with AVG-Detector (1 GHz - 18 GHz)

Frequency MHz	Level dBµV/m	Limit dBµV/m	Margin dB	Exceed- Mark
2312	48.22	54	5.78	-
2376	46.19	54	7.81	-
2440	95.74	54	-41.74	X*
2568	45.6	54	8.4	-
7320.5	44.34	54	9.66	-
17982	43.64	54	10.36	-

*) 2440 MHz is the transmitting frequency of the used channel

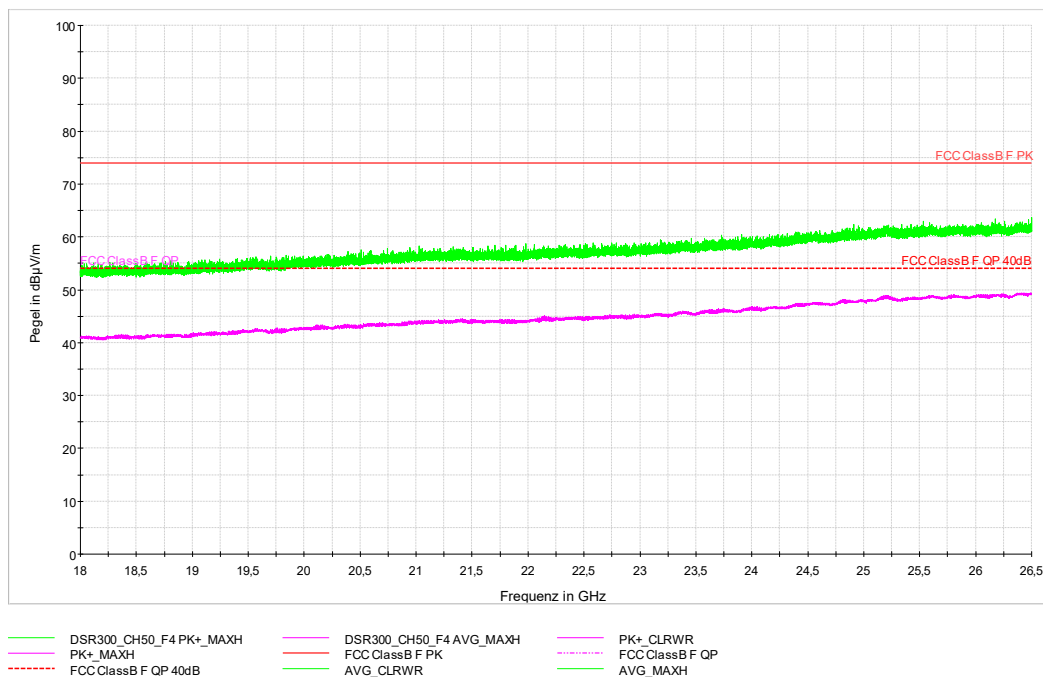
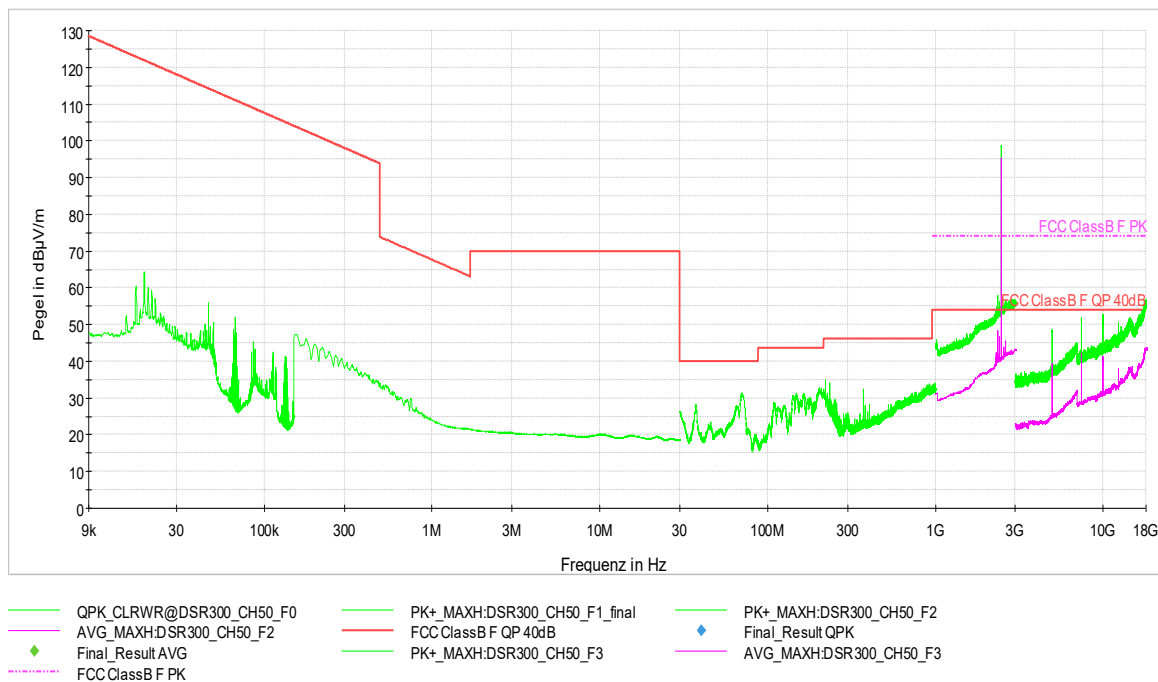
Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-122/1; NT-126; NT-131/1; NT-139; NT-207/1; NT-216; NT-337/1; NT-472; NT-511/1; NT-520/1; EMV-114

Emissions in restricted bands Emissions falling within restricted frequency bands

§ 15.209(a)
RSS-Gen

Measurement above 1 GHz are with Peak-Detector (green line) and Average-Detector (magenta line):

Setup: CH 50: 2480 MHz, both antennas



Worst case emission: Average @ 2352 MHz: 48.47 dBµV/m

Grundvorlage / Basic Template: FM-TAGMBH-KBS-0100b_Grundvorlage Prüfbericht akkreditiert-EN, Rev. 04

LIMIT SUBCLAUSE 15.209(a) – RSS-Gen

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Measurement with QP-Detector (9 kHz - 1 GHz)

Frequency MHz	Level dBμV/m	Limit dBμV/m	Margin dB	Exceed-Mark
70.26	31.4	40	8.6	-*
202.74	32.78	43.5	10.72	-*
221.19	34.82	46	11.18	-*
233.46	34.22	46	11.78	-*
373.26	32.55	46	13.45	-*
927.84	33.82	46	12.18	-*

*) Measurement with Peak-Detector

Measurement with PK-Detector (1 GHz - 18 GHz)

Frequency MHz	Level dBμV/m	Limit dBμV/m	Margin dB	Exceed-Mark
2352.25	57.87	74	16.13	-
2416	56.31	74	17.69	-
2480	98.6	74	-24.6	X*
2851	56.85	74	17.15	-
7440	52.1	74	21.9	-
9919.25	52.85	74	21.15	-
17892	56.83	74	17.17	-

*) 2480 MHz is the transmitting frequency of the used channel

Measurement with AVG-Detector (1 GHz - 18 GHz)

Frequency MHz	Level dBµV/m	Limit dBµV/m	Margin dB	Exceed- Mark
2352	48.47	54	5.53	-
2416	46.8	54	7.2	-
2480	95.35	54	-41.35	X*
2544	43.87	54	10.13	-
2608	45.61	54	8.39	-
7440.5	42.09	54	11.91	-
17992	43.62	54	10.38	-

*) 2480 MHz is the transmitting frequency of the used channel

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-122/1; NT-126; NT-131/1; NT-139; NT-207/1; NT-216; NT-337/1; NT-472; NT-511/1; NT-520/1; EMV-114

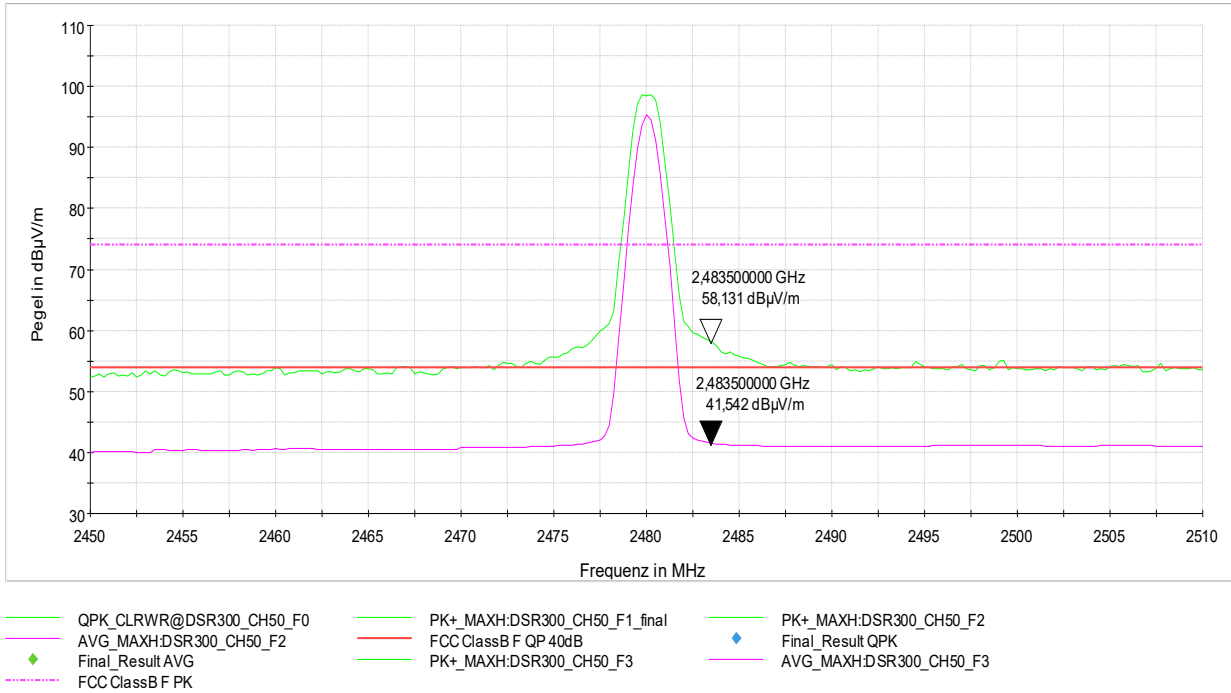


Emissions in restricted bands
Emissions falling within restricted frequency bands

§ 15.209(a)
RSS-Gen

Measurement with Peak-Detector (green line) and Average-Detector (magenta line): Band Edge requirement

Setup: CH 50: 2480 MHz, both antennas



Frequency band (§ 15.247): 2400-2483.5 MHz
The 20 dB bandwidth of the emission on the highest channel is fully contained within the frequency band.

LIMIT SUBCLAUSE 15.209(a) – RSS-Gen

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Band edges of the nearest restricted bands: 2390 MHz and 2483,5 MHz.

Grundvorlage / Basic Template: FM-TAGMBH-KBS-0100b_Grundvorlage Prüfbericht akkreditiert-EN, Rev. 04

LIMIT

SUBCLAUSE 15.215(c)

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. 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 a 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.

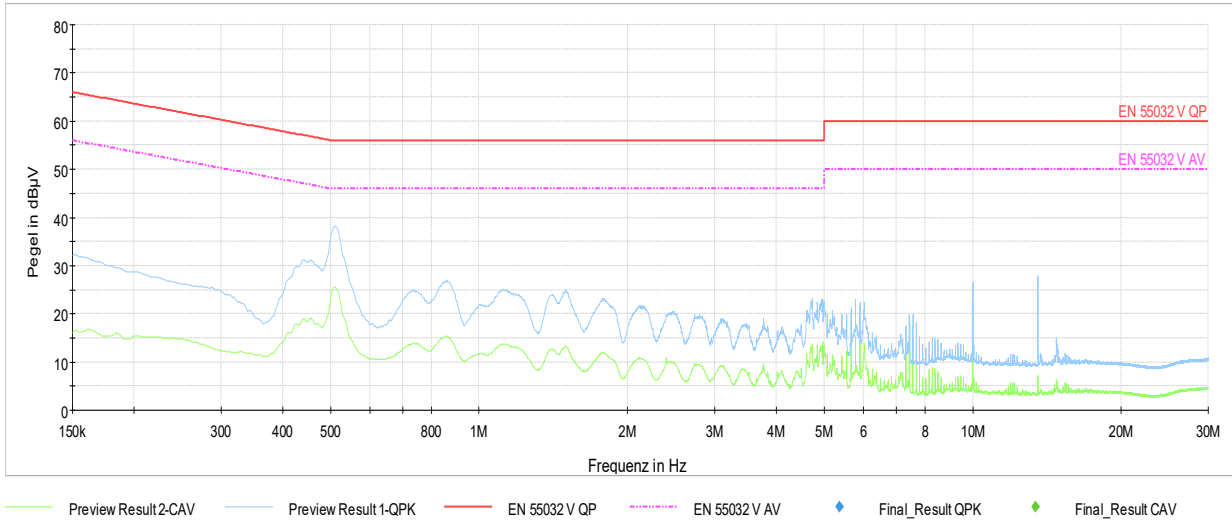
Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-122/1; NT-131/1; NT-139; NT-207/1; NT-216; NT-337/1; NT-472; NT-511/1; NT-520/1

4.8. Conducted Limits

§ 15.207
RSS-Gen 8.8

Measurement with Quasi-Peak-Detector (light blue line) and Average-Detector (green line):

Setup:
AC mains: 120V 60Hz, normal operation receiving a digital modulated audio signal from a companion device.



Due to the large margin to the limit no final measurement was performed.

LIMIT SUBCLAUSE 15.207(a) – RSS-Gen

Frequency (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 - 5	56	46
5 - 30	60	50

*Decreases with the logarithm of the frequency

Test Equipment used: NT-207/1; NT-300; NT-441; NT-520/1

4.9. RF Exposure

KDB 447498 D04
§1.1307(b)(3)(i)(B)

according to KDB 447498 D04 Interim General RF Exposure Guidance v01 “RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES”.

The evaluation followed the flowchart in Figure A.1.

Title 47 §1.1307(b)(3)(i)(C):

(3) Determination of exemption.

(i) For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

TABLE 1 TO § 1.1307(b)(3)(i)(C)—SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2R^2$.

Maximum conducted power and EIRP values are taken from Section 4.5.

Calculations are done for mobile exposure with a minimum separaton distance of 20 cm.

Antenna A:

f [MHz]	wavelength /2pi [m]	ERPth [W]	producti on variance	conducted [W]	max gain [dBi]	EIRP [W]	ERP [W]	Fraction ERP/ERPth [1]	Result
2402	0.02	0.76800	1.2	0.00378	1.76	0.006	0.00345	0.004	OK
2440	0.02	0.76800	1.2	0.003756	0.62	0.004	0.00264	0.003	OK
2480	0.02	0.76800	1.2	0.003288	1.25	0.004	0.00267	0.003	OK

Antenna B:

f [MHz]	wavelength /2pi [m]	ERPth [W]	producti on variance	conducted [W]	max gain [dBi]	EIRP [W]	ERP [W]	Fraction ERP/ERPth [1]	Result
2402	0.02	0.76800	1.2	0.003504	2.09	0.006	0.00345	0.004	OK
2440	0.02	0.76800	1.2	0.003408	1.04	0.004	0.00264	0.003	OK
2480	0.02	0.76800	1.2	0.002988	1.66	0.004	0.00267	0.003	OK

The device uses its two transmitters for switched antenna diversity, simultaneous transmission is not possible. Both antennas fulfill the §1.1307(b)(3)(i)(C) requirement individually.

The device is a *MPE exempt RF device* as per Title 47 §1.1307(b)(3)(i)(C).



RF Exposure**RSS-102, Issue 6****6.6 Field reference level exposure exemption limits**

Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

RSS-102 Exemption calculation

Maximum conducted power and EIRP values are taken from Section 4.5.

The device uses its two transmitters for switched antenna diversity, simultaneous transmission is not possible. Both antennas fulfill the RSS-102 6.6 requirement individually.

Antenna A:

Frequency (MHz)	production variance	max. EIRP (mW)	Duty Cycle (1) *)	Avg. EIRP (mW)	Separation distance (cm)	Limit (W)	Result
2402	1.2	5.66	1	5.66	>20	2.676	OK
2440	1.2	4.33	1	4.33	>20	2.705	OK
2480	1.2	4.38	1	4.38	>20	2.735	OK

*) Duty cycle was not measured, factor 1 is a worst case assumption.

Antenna B:

Frequency (MHz)	production variance	max. EIRP (mW)	Duty Cycle (1) *)	Avg. EIRP (mW)	Separation distance (cm)	Limit (W)	Result
2402	1.2	5.66	1	5.66	>20	2.676	OK
2440	1.2	4.33	1	4.33	>20	2.705	OK
2480	1.2	4.38	1	4.38	>20	2.735	OK

*) Duty cycle was not measured, factor 1 is a worst case assumption.

The time-averaged output power is below the exemption limit for routine evaluation.

Appendix 1

Test equipment used

☐	Anechoic Chamber with 3m measurement distance	NT-100	☐	Ant. tripod for EN61000-4-3 Model TP1000A	NT-156
☐	Stripline according to ISO 11452-5	NT-108	☐	Power quality analyzer Fluke 1760 (complete set)	NT-160 - NT-173
☐	MA4000 - Antenna mast 1 - 4 m height	NT-110/1			
☐	DS - Turntable 0 - 400 ° Azimuth	NT-111/1	☐	ESCI - Test receiver 9 kHz - 7 GHz	NT-203/1
☐	CO3000 Controller Mast+Turntable	NT-112/1	☐	ESR – Test receiver 20 Hz – 26,5 GHz	NT-207/1
☐	HUF-Z3 - Log. Per. Antenna 200 - 1000 MHz	NT-121	☐	Digital Radio Tester CMW500	NT-208/1
☐	FMZB 1519-60D - Loop Antenna 9 kHz - 30 MHz	NT-122/2	☐	Noise-gen., ITU-R 559-2 20 Hz – 20 kHz	NT-209
☐	HFH-Z6 - Rod Antenna 9 kHz - 30 MHz	NT-123	☐	CMTA - Radiocommunication analyzer ; 0,1 - 1000 MHz	NT-210
☐	Dipole Antenna VHA9103 30 - 300 MHz	NT-124/1a	☐	3271 - Spectrum analyzer 100 Hz - 26,5 GHz	NT-211
☐	Dipole Antenna UHA9105 300 - 1000 MHz	NT-124/1b	☐	Digital Radio Tester Aeroflex 3920	NT-212/1
☐	3115 - Horn Antenna 1 - 18 GHz (immunity)	NT-125	☐	Mixer M28HW 26,5 GHz - 40 GHz	NT-214
☐	3116 - Horn Antenna 18 - 40 GHz	NT-126	☐	RubiSource T&M Timing reference	NT-216
☐	SAS-200/543 - Bicon. Antenna 20 MHz - 300 MHz	NT-127	☐	Radiocommunicationanalyzer SWR 1180 MD	NT-217
☐	AT-1080 - Log. Per. Antenna 80 - 1000 MHz	NT-128	☐	Mixer FS-Z60 40 GHz – 60 GHz	NT-218/1
☐	HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-129	☐	Mixer FS-Z90 60 GHz – 90 GHz	NT-219/1
☐	HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-130	☐	Rigol MSO8204 Digital scope	NT-220/2
☐	3146 - Log. Per. Antenna 200 – 1000 MHz	NT-131	☐	TPS 2014 Digital scope	NT-222
☐	VULB 9163 Trilog Antenna 30 – 3000 MHz	NT-131/1	☐	Artificial Ear according to IEC 60318	NT-224
☐	Loop Antenna H-Field	NT-132	☐	1 kHz Sound calibrator	NT-225
☐	Horn Antenna 500 MHz - 2900 MHz	NT-133	☐	SRM-3006 Spectrumanalyzer	NT-233/1a
☐	Horn Antenna 500 MHz - 6000 MHz	NT-133/1	☐	E-field probe SRM 75 MHz – 3 GHz	NT-234
☐	Log. per. Antenna 800 MHz - 2500 MHz	NT-134	☐	Field Meter NBM-500 incl. E- and H-Field probes	NT-240a-e
☐	Log. per. Antenna 800 MHz - 2500 MHz	NT-135	☐	Magnetometer HP-01	NT-241/1
☐	BiConiLog Antenna 26 MHz – 2000 MHz	NT-137	☐	EFA-3 H-field- / E-field probe	NT-243
☐	Conical Dipol Antenna PCD8250	NT-138	☐	EHP-50F H-field- / E-field probe	NT-243/1
☐	HF 906 - Horn Antenna 1 - 18 GHz (emission)	NT-139	☐	Field Meter EMR-200 100 kHz – 3 GHz	NT-244
☐	HZ-1 Antenna tripod	NT-150	☐	E-field probe 100 kHz – 3 GHz	NT-245
☐	BN 1500 Antenna tripod	NT-151	☐	H-field probe 300 kHz – 30 MHz	NT-246

Competence Center:
Electrical & Enviromental

Test report number:
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Appendix 1 (continued)

Test equipment used

☐ E-field probe 3 MHz – 18 GHz	NT-247	☐ Prana N-MT 500 - RF-Amplifier 80 - 1000 MHz / 500 W	NT-332/1
☐ H-field probe 27 MHz – 1 GHz	NT-248	☐ BBA150 RF-Amplifier 1 GHz - 6 GHz	NT-333/1
☐ ELT-400 1 Hz – 400 kHz	NT-249	☐ APA01 – RF-Amplifier 0,5 GHz – 2,5 GHz	NT-334
☐ MDS 21 - Absorbing clamp 30 - 1000 MHz	NT-250	☐ Preamplifier 1 GHz - 4 GHz	NT-335
☐ CDN EMCL-35 EM Injection clamp	NT-251/1	☐ Preamplifier for GPS MKU 152 A	NT-336
☐ FCC-203I-DCN Ferrite decoupling network	NT-252	☐ Preamplifier 1 GHz – 18 GHz	NT-337/1
☐ PR50 Current Probe	NT-253	☐ DC Block 10 MHz – 18 GHz Model 8048	NT-338
☐ i310s Current Probe	NT-254/1	☐ 2-97201 Electronic load	NT-341
☐ Fluke 87 V True RMS Multimeter	NT-260	☐ TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-344
☐ Model 2000 Digital Multimeter	NT-261	☐ TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-345
☐ Fluke 87 V Digital Multimeter	NT-262/1	☐ VDS 200 Mobil-impuls-generator	NT-350
☐ ESH2-Z5-U1 Artificial mains network 4x25A	NT-300	☐ LD 200 Mobil-impuls-generator	NT-351
☐ ESH3-Z5-U1 Artificial mains network 2x10A	NT-301	☐ MPG 200 Mobil-Impuls-Generators	NT-352
☐ ESH3-Z6-U1 Artificial mains network 1x100A	NT-302	☐ EFT 200 Mobil-impuls-generator	NT-353
☐ ESH3-Z6-U1 Artificial mains network 1x100A	NT-302a	☐ AN 200 S1 Artificial Network	NT-354
☐ EZ10 T-Artificial Network	NT-305	☐ FP-EFT 32M 3 ph. Coupling filter (Burst)	NT-400/1
☐ SMA100A - Signal generator 9 kHz - 6 GHz	NT-310/1	☐ PHE 4500 - Mains impedance network	NT-401
☐ RefRad Reference generator	NT-312	☐ IP 6.2 Coupling filter for data lines (Surge)	NT-403
☐ SMP 02 Signal generator 10 MHz - 20 GHz	NT-313	☐ TK 9421 High Power Volt. Probe 150 kHz - 30 MHz	NT-409
☐ 40 MHz Arbitrary Generator TGA1241	NT-315	☐ ESH2-Z3 - Probe 9 kHz - 30 MHz	NT-410
☐ Artificial mains network NSLK 8127-PLC	NT-316	☐ CN-EFT1000 - Capacitive clamp (Burst)	NT-411/1
☐ PSURGE 4.1 Surge generator	NT-324	☐ Highpass-Filter 100 MHz – 3 GHz	NT-412
☐ IMU4000 Immunity test system	NT-325/1a-e	☐ Highpass-Filter 600 MHz – 4 GHz	NT-413
☐ VCS 500-M6 Surge-Generator	NT-326	☐ Highpass-Filter 1250 MHz – 4 GHz	NT-414
☐ Oscillatory Wave Simulator incl. Coupling networks	NT-328a+b+c	☐ Highpass-Filter 1800 MHz – 16 GHz	NT-415
☐ BTA-250 - RF-Amplifier 9 kHz - 220 MHz / 250 W	NT-330		

Competence Center:
Electrical & Environmental

Test report number:
2024-AT-TC-EE-ET-EX-0-
000216-FG-003

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Appendix 1 (continued)

Test equipment used

☐	RF-Attenuator 10 dB DC – 18 GHz / 50 W	NT-417/1	☐	95242-1 – Current probe 1 MHz – 400 MHz	NT-468
☐	RF-Attenuator 6 dB DC – 18 GHz / 50 W	NT-418	☐	94106-1L-1 – Current probe 100 kHz – 450 MHz	NT-471
☐	RF-Attenuator 3 dB DC – 18 GHz / 50 W	NT-419	☐	WHKX12-2700-3000-18000 3 GHz Highpass filter	NT-472
☐	RF-Attenuator 20 dB DC - 1000 MHz / 25 W	NT-421	☐	WHKX10-3870-4500-18000 4,5 GHz Highpass filter	NT-473
☐	RF-Attenuator 30 dB DC - 1000 MHz / 1 W	NT-423	☐	CDN S9 USB3.0 Coupling decoupling network	NT-474
☐	RF-Attenuator 30 dB	NT-424	☐	CDN S2 XLR3-1 Coupling decoupling network	NT-475
☐	RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-425	☐	CDN S8 RJ45 Coupling decoupling network	NT-476
☐	RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-426	☐	GA 1240 Power amplifier according to EN 61000-4-16	NT-480
☐	RF-Attenuator 6 dB	NT-428	☐	Coupling networks according to EN 61000-4-16	NT-481 - NT-483
☐	RF-Attenuator 0 dB - 81 dB	NT-429	☐	Van der Hoofden Test Head	NT-484
☐	WRU 27 - Band blocking 27 MHz	NT-430	☐	WRCJV12-5820-5850-5950-5980 5,9 GHz Band Reject Filter	NT-490
☐	WHJ450C9 AA - High pass 450 MHz	NT-431	☐	WHKX10-5670-6300-18000 6 GHz Highpass filter	NT-491
☐	WHJ250C9 AA - High pass 250 MHz	NT-432	☐	WHK12-935-1000-7000 1 GHz Highpass filter	NT-492
☐	RF-Load 150 W	NT-433	☐	EMC Video/Audiosystem	NT-511/1
☐	Impedance transducer 1:4 ; 1:9 ; 1:16	NT-435	☐	EMC32 Version 10.60.20 Test software	NT-520/1
☐	RF-Attenuator DC – 18 GHz 6 dB	NT-436	☐	SRM-TS Version 1.3 software for SRM-3000	NT-522
☐	RF-Attenuator DC – 18 GHz 6 dB	NT-437	☐	SRM-TS Version 1.3.1 software for SRM-3006	NT-522/1
☐	RF-Attenuator DC – 18 GHz 10 dB	NT-438	☐	Spitzenberger und Spies Test software V4.1	NT-525
☐	RF-Attenuator DC – 18 GHz 20 dB	NT-439	☐	Vertical coupling plane (ESD)	NT-531
☐	ESH3-Z2 - Pulse limiter 9 kHz - 30 MHz	NT-441	☐	Test cable #4 for EN 61000-4-6	NT-553
☐	Power Divider 6 dB/1 W/50 Ohm	NT-443	☐	Test cable #3 for conducted emission	NT-554
☐	Directional coupler 0,1 MHz – 70 MHz	NT-444	☐	Test cable #5+#6 ESD-cable (2x470k)	NT-555 + NT-556
☐	Directional coupler 0,1 MHz – 70 MHz	NT-445	☐	Test cable #8 Sucoflex 104EA	NT-559
☐	Tube imitations according to EN 55015	NT-450	☐	Test cable #9 (for outdoor measurements)	NT-580
☐	FCC-801-M3-16A Coupling decoupling network	NT-458	☐	Test cable #10 (for outdoor measurements)	NT-581
☐	FCC-801-M2-50A Coupling decoupling network	NT-459	☐	Test cable #13 Sucoflex 104PE	NT-584
☐	FCC-801-M5-25 Coupling decoupling network	NT-460	☐	Test cable #21 for SRM-3000	NT-592
☐	FCC-801-T4 Coupling decoupling network	NT-463	☐	Shield chamber	NT-600
☐	FCC-801-C1 Coupling decoupling network	NT-464	☐	Climatic chamber	M-1200
☐	SW 9605 - Current probe 150 kHz – 30 MHz	NT-465/1			

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☐	Anechoic Chamber 3 m / 5 m measuring distance	EMV-100	☐	HF- Amplifier 9 kHz-225 MHz BBL200	EMV-300/1
☐	Turntable 6 m diameter	EMV-101	☐	HF- Amplifier 80 -1000 MHz BBA150	EMV-301
☐	Antenna mast + controller	EMV-102+ EMV-103	☐	HF- Amplifier 0,8 - 6 GHz BBA150	EMV-302
☐	EMC Video/Audiosystem	EMV-104	☐	High Power Ant. 20-200 MHz HPBA-2510	EMV-303/1
☐	EMC Software EMC32 Version 10.6.2	EMV-105	☐	High Power Ant. 20-200 MHz S12018-21	EMV-303/2
☐	Hornantenna 1 – 18 GHz HF 907	EMV-110	☐	Log.per Antenna 80-2700 MHz STLP 9128 E special	EMV-304
☐	Antennapre.amp. 1 – 18 GHz BBV 9718 D	EMV-111/1	☐	Log.per Antenna 0,7 – 9 GHz STLP9149	EMV-305
☐	Trilog Antenna 30-3000 MHz VULB9163	EMV-112	☐	HF- Amplifier 9 kHz-250 MHz BBA150 (low noise)	EMV-306
☐	Monopol 9 kHz – 30 MHz VAMP 9243	EMV-113	☐	ISO11451-2 TLS 10 kHz – 30 MHz	EMV-307
☐	Antennapre.amp 18 – 40 GHz BBV 9721	EMV-114	☐	Load Dump Generator LD 200N	EMV-350
☐	Hornantenna 200 – 2000 MHz AH-220	EMV-115	☐	Ultra Compact Symulator UCS 200N100	EMV-351
☐	DC Artificial Network PVDC 8300	EMV-150	☐	Automotive Power fail module PFM 200N100.1	EMV-352
☐	AC Artificial Network NNLK 8121 RC	EMV-151	☐	Voltage Drop Symulator VDS 200Q100	EMV-353
☐	AC Artificial Network NNLK 140	EMV- 153a-d	☐	Arb. Generator AutoWave	EMV-354
☐	EMI Receiver ESW44	EMV-200/1	☐	Ultra Compact Symulator UCS 500N7	EMV-355
☐	Signalgenerator 9 kHz – 40 GHz N5173B	EMV-201	☐	Coupling decoupling network CNI 503B7 / 32 A	EMV-356
☐	GPS Frequency normal LBE-1420	EMV-202/1	☐	Coupling decoupling network CNI 503B7 / 63 A	EMV-357
☐	DC Power supply N5745A	EMV-203	☐	Telecom Surge Generator TSurge 7	EMV-358
☐	Spektrum Analyzator FSV40	EMV-205	☐	Coupling decoupling network CNI 508N2	EMV-359
☐	Thd Multimeter Model 2015	EMV-206	☐	Coupling decoupling network CNV 504N2.2	EMV-360
☐	Poweramplifier PAS15000	EMV- 207/abc	☐	Immunity generator NSG4060/NSG4060-1	EMV-361
☐	Inrush Current Source	EMV- 208/abc	☐	Coupling network CDND M316-2	EMV-362
☐	Arb.-generator Sycore	EMV-209	☐	Coupling network CT419-5	EMV-363
☐	Harmonics/Flicker analyzer ARS 16/3	EMV-210	☐	ESD Generator NSG 437	EMV-364
☐	Power Supply Regatron AC	EMV-214	☐	Pulse Limiter VTSD 9561-F BNC	EMV-405
☐	Power Supply Regatron DC	EMV-215	☐	Transient emission BSM200N40+BS200N100	EMV- 450+451
☐	Harmonics/Flicker analyser Zimmer	EMV-216	☐	Cap. Coupling Clamp HFK	EMV-455
☐	Flicker Impedanz Newtons4th 753	EMV-218	☐	Mag. Field System MS100N+MC26100+MC2630	EMV- 456-458
☐	Comemso	EMV-219			

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☐	Coupling network CDN M2-100A	EMV-459
☐	Coupling network CDN M3-32A	EMV-460
☐	Coupling network CDN M5-100A	EMV-461
☐	Current Clamp CIP 9136A	EMV-462
☐	DC Artificial Network HV-AN 150	EMV-464+465
☐	Coupling Clamp EM 101	EMV-466
☐	Decoupling Clamp FTC 101	EMV-467
☐	Power attenuator 10 dB / 250 Watt	EMV-469/2
☐	HV AMN NNHV 8123 800A	EMV-472
☐	HV AMN NNHV 8123 800A	EMV-473