FCC Test Report (Part 15C)

WPT

Test report no.:	LAB-1796A (v2.0)	**Date of report:**	11-Mar-2026
Number of pages:	39	**Lab project responsible:**	Oliver Flecke
Test period:	21-Jan-2026 to 30-Jan-2026		

Applicant:	Molex CVS Bochum, Meesmannstrasse 103, 44807 Bochum, Germany, Mr. Bernhard Bläcker
Manufacturer:	Molex Technologies GmbH, Mizarstrasse 3, 12529 Schönefeld, Germany
EUT identification:	Molex, WCH-402 (WCH-402a, WCH-402b)
FCC ID:	RK7WCH-402

Testing laboratory:	Molex CVS Lab, Molex CVS Bochum GmbH, Meesmannstr.103, 44807 Bochum, Germany	
	Tel.:	+49 234 51668-0
	e-mail:	Product.Validation.Bochum@molex.com
	FCC designation no.:	DE0017
	Laboratory manager:	Robert Müller

Test result:	The EUT complies with the requirements made in the referred test documents.

Approver:	Robert Müller	**Technical review:**	Frank Wittmann
Title:	Laboratory Manager	**Title:**	Senior Test Engineer EMC
Signature:		**Signature:**	

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Version History

Report Number	Date	Comment
LAB-1796A (v1.0)	05-Feb-2026	1st approved version
LAB-1796A (v2.0)	11-Mar-2026	2nd approved version, added marker in plots with maximum field strength at carrier frequency
-	-	-

Former issued versions of this report are declared as invalid.

1. Summary

Date of receipt	20-Jan-2026
The customer's contact person	Mr. Bernhard Bläcker
Test samples / setup pictures	LAB-1796B_FCC_EUT_&_Test_Setup_Photos
HW change / difference document	none
Notes	none

1.1. EUT and accessory Information

The EUT is an inductive wireless power transfer (WPT) device (wireless charger) with transmitter modulation operating at 130.55 kHz (EPP) and 360 kHz (MPP) at maximum power of 15 W, and without transmitter modulation operating at 127.55 kHz (BPP) at maximum power of 5 W. The EUT is tested with an artificial load, continuously operating at maximum load and a maximum duty cycle of 100 %.

The following test samples provided by the customer were tested.

ID	Description	Manufacturer	Type	S/N	HW Version	SW Version
260000	WPT Device	Molex	WCH-402a	253022F0589	03.03	15.06.004
260001	WPT Device	Molex	WCH-402a	253022F0580	03.03	15.06.004

The following accessories have been provided by the customer and belong to the equipment under test (EUT).

ID	Description	Manufacturer	Type	S/N	HW Version	SW Version
260002	System power cable (1 m)	Molex	-	-	-	-
250238	System power cable (2 m)	Molex	-	-	-	-
250664	Receiver 5 W BPP	YBZ	-	17512071278	-	-
230676	Receiver 15 W EPP	Molex	TREC-EE-MPP-V2-15W	-	-	-
230677	Receiver 15 W EPP	Molex	TREC-EE-MPP-V2-15W	-	-	-
250417	Receiver 15 W MPP	Molex	TREC-CE-V2.0-15W	-	-	-
250412	Receiver 15 W MPP	Molex	TREC-CE-V2.0-15W	-	-	-

1.2. Technical characteristics

Power Supply	Lead-acid battery (vehicle regulated) – 12 V DC		
Voltage Range	U_{nom} = 13.2 V	U_{min} = 11.2 V	U_{max} = 15.2 V
Charging cut-off Voltage @ 15W	$U_{cut\text{-}off}$ = 12.0 V (MPP wireless power transfer is stopped for U < $U_{cut\text{-}off}$)		
Temperatures Range	-40 °C ... +85 °C (WPT +60 °C)		
Radio Type	WPT transceiver		
Product Category	Category I radio apparatus (type 3)		
Operating Frequency Range	127.55 kHz (BPP)	130.55 kHz (EPP)	360.00 kHz (MPP)
Communication Frequency	Same as operating frequency range		
Operating Channels	Not channelized		
Antenna Type	Integral inductive loop coils (no customization allowed)		
Antenna Gain [dBi]	n.a.		
Modulation Type	BPP (5 W) mode: H-field for charging is not modulated EPP & MPP (15 W) mode: H-field for charging is digital modulated		
Modulation Technique	BPP (5 W) mode: H-field for charging is not modulated EPP & MPP (15 W) mode: H-field for charging is FSK modulated		

The above technical information was provided by the applicant. For more details, please refer to the User's manual of the EUT.

1.3. Applied standards

Standard / Rule Part	Version	Year
CFR 47, FCC Part 15C	-	Jan-2026
ANSI C63.10	-	Sep-2020 (+COR1 2023)
ANSI C63.10a	-	Aug-2024

Deviations or clarifications to these standards are noted in the related test result under “test method and limit”.

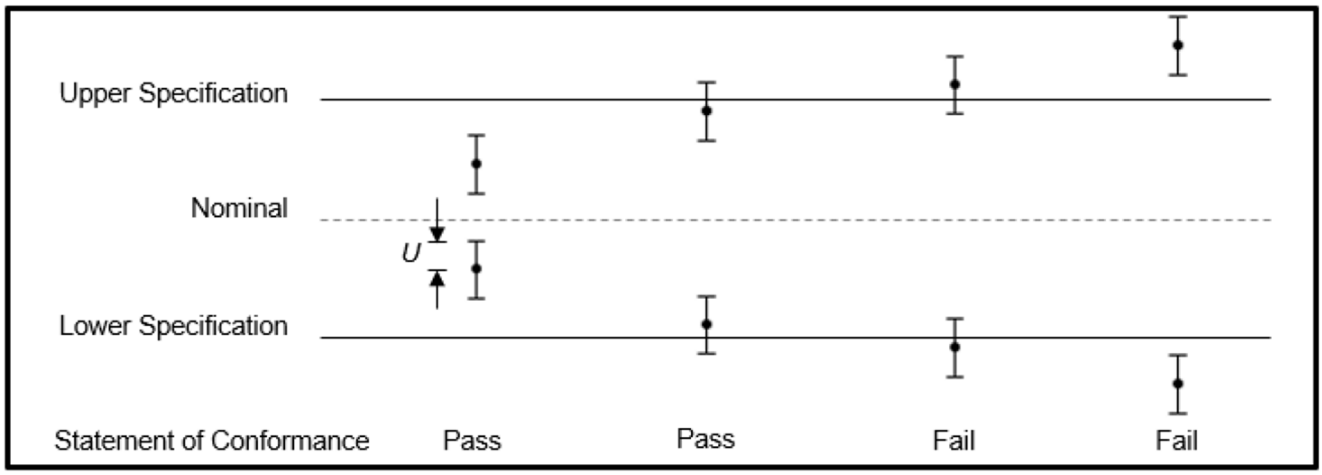
1.4. Measurement uncertainties

Parameter	Measurement Uncertainty
Radio Frequency	±1.0 x 10^{-7}
RF Power, conducted	±0.79 dB
RF Power, radiated	±3.78 dB
Field Strength, radiated	±5.21 dB
Temperature	±1.0 °C
Humidity	±2.0 %

These uncertainties represent an expanded uncertainty expressed approximately at the 95 % confidence level using a coverage factor of k=2

1.5. Decision rule

Unless it is inherent in the requested customer specification or test standard, the "Binary Statement for Simple Acceptance" as defined in ILAC G8:2019 clause 4.2.1 is applied as decision rule for the conformity statement, see the following picture. Therefore, the measured values are compared directly with the limit values without taking the measurement uncertainty into account.



U = 95% expanded measurement uncertainty

1.6. Risk assessment

Following the guidance of ILAC G8:2019 clause 5.2, the level of specific risk of False Accept or False Reject considering different decision rules and respectively expanded measurement uncertainties can be expressed as follows.

Decision Rule	Distance of Measurement Value to Limit	Probability of wrong Conformity Statement
6 Sigma	3 x Measurement Uncertainty	< 1 ppm
3 Sigma	1.5 x Measurement Uncertainty	< 0.16 %
ILAC G8:2009 Rule	1 x Measurement Uncertainty	< 2.5 %
ISO 14253.1:2017	0.83 x Measurement Uncertainty	< 5 %
Simple Acceptance, ILAC G8:2019 4.2.1	Measurement Value on Limit Line	50 % “worst case” scenario

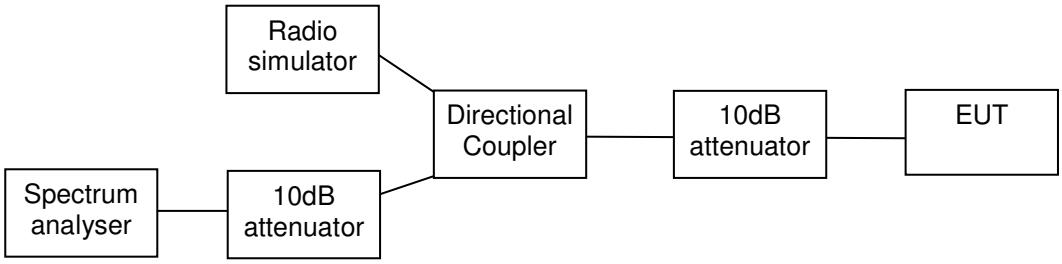
1.7. Summary of test results

Section	Section in CFR 47	Name of the test	Result
3	15.205, 15.209	Radiated emissions below 30 MHz	PASSED
4	15.205, 15.209	Radiated emissions above 30 MHz	PASSED
-	15.207	AC powerline conducted emissions	NA
5	15.215 (c)	Occupied bandwidth	PASSED

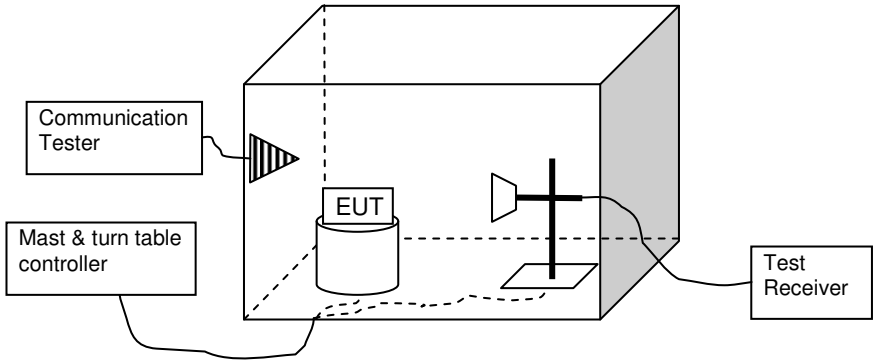
PASSED: The EUT complies with the essential requirements in the standard.
FAILED: The EUT does not comply with the essential requirements in the standard.
NP: The test was not performed.
NA: The test was not applicable.

2. Test setups

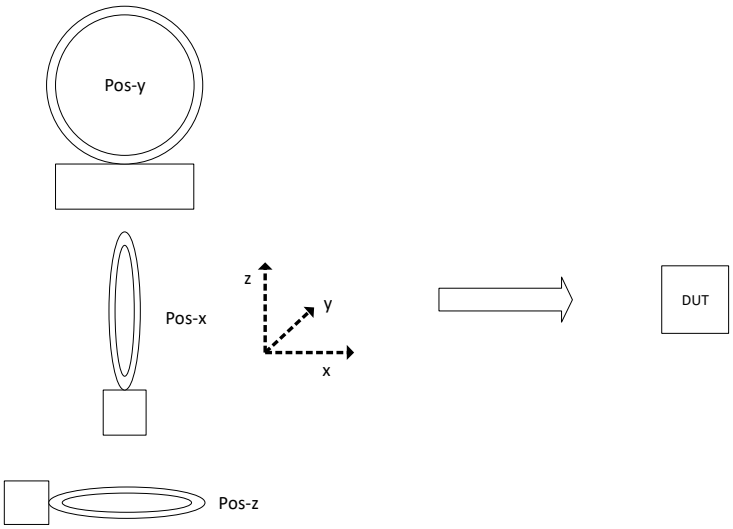
2.1. Conducted radio test setup (Setup 1)



2.2. Radiated emissions test setup (Setup 2)



Loop Antenna orientation:



3. Radiated emissions below 30 MHz

EUT with DUT number	260000
Accessories with DUT numbers	260002, 250664 (5W BPP), 230676 (15W EPP), 250417 (15W MPP)
Operation voltage	13.2 V / DC
Result	PASSED
Remarks	none
Temperature / humidity	+15 °C to +35 °C / 20 % to 75 %
Date of measurement	27-Jan-2026 to 30-Jan-2026
Test responsible	Frank Wittmann
Test system SW / version / configuration	Rohde & Schwarz EMC32 / 11.70.00 / v2.3

3.1. Test method and limit

The measurement is made according to ANSI C63.10 and FCC Part 15.205, 15.209 as follows:

- ⇨ The measurement distance is 3 m with a shielded loop antenna. The magnetic field to electric field conversion factor is 51.5 dB (dBµA/m = dBµV/m - 51.5 dB).
- ⇨ The FCC limit has been extrapolated by applying the distance correction factor according to 15.31(f)(2). (+40 dB for 30 m distance and +80 dB for 300 m distance)
- ⇨ The measurement is divided into the Preliminary Measurement and the Final Measurement.

  The Preliminary Measurement and the Final Measurement are performed with the measuring antenna at 1m height. The equipment under test (EUT) is located on an 80 cm table, which is rotated by 360 degrees. The DUT is positioned in horizontal position on the test table.
- ⇨ During the Preliminary Measurement, the suspected frequencies are searched by using the PK detector and the measuring antenna is turned in 3 orthogonal positions (x-, y-, z-pos) to find out worst case position.

  In the Final Measurement the exact frequency and amplitude of these emissions are re-measured by using the applicable QP and AV detector.
- ⇨ The Final Measurement is performed if the Preliminary Measurement results are closer than 20 dB to the permissible limit.
- ⇨ The measurement results are obtained as described in the following formula: $E\ [dB\mu V/m] = U_{RX} + A_{CF}$

  Where U_{RX} is receiver reading and A_{CF} is total correction factor including cable loss, antenna factor and preamplifier gain ($A_{CF} = L_{CABLES} + AF - G_{PREAMP}$).
- ⇨ Example values for calculation of one final QP measurement frequency at 638 kHz, see result in 3.2.1:

  E [dBµV/m] = 18.57 + 22.18 = 40.75

Limits for radiated emission measurements at 3 m measurement distance.

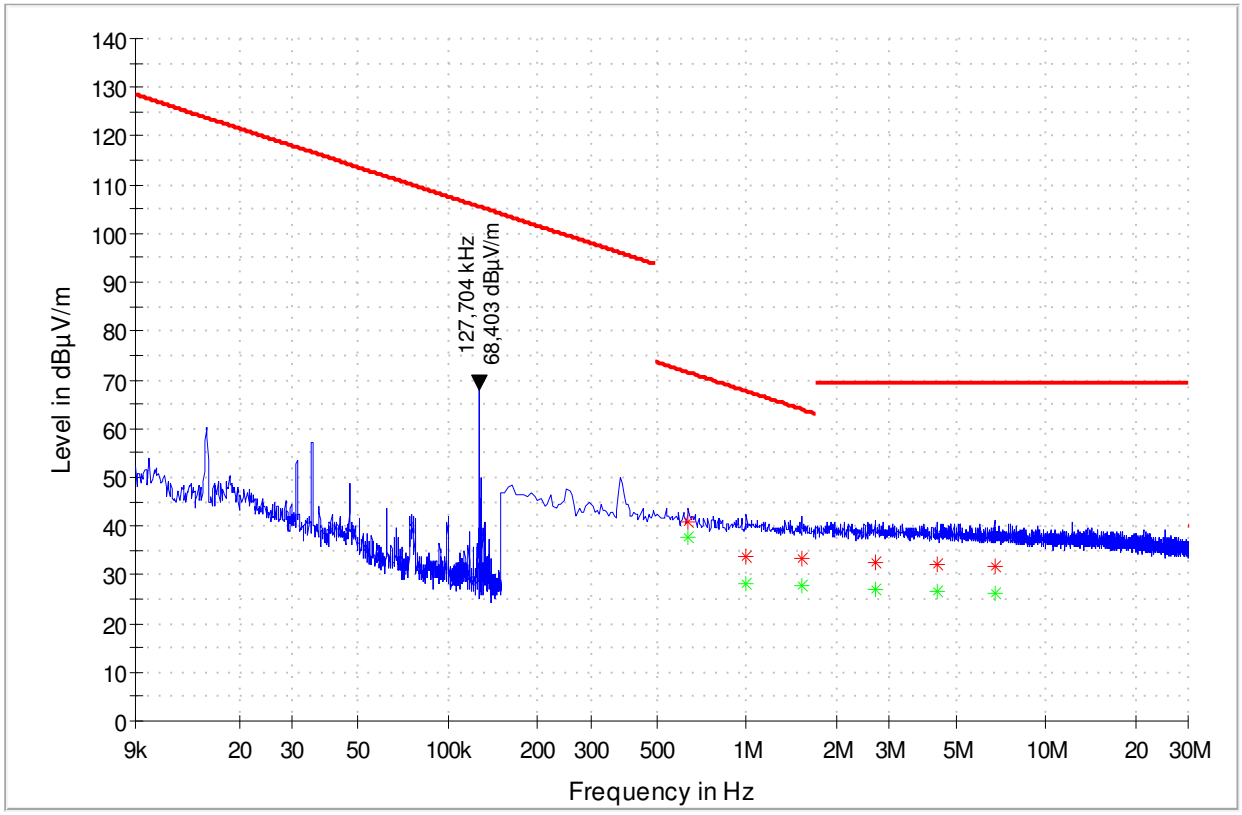
Frequency range [MHz]	Limit [µV/m]	Limit [dBµV/m]	Detector
0.009 – 0.090	10000 * 2400 / F[kHz]	48.5 – 13.8 (+80 dB)	AV
0.090 – 0.110			QP
0.110 – 0.490			AV
0.490 – 1.705	100 * 24000 / F[kHz]	33.8 – 23.0 (+40 dB)	QP
1.705 – 30.00	100 * 30	29.5 (+40 dB)	QP

3.2. Test results

3.2.1 5 W not modulated (BPP)

DUT horizontal, Antenna x-position

Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 10 kHz)



Quasi-Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.638	40.75	71.51	30.77	15000	9	100	V	1	22.18	PASSED
0.996	33.75	67.64	33.89	15000	9	100	V	57	22.18	PASSED
1.528	33.28	63.92	30.64	15000	9	100	V	111	22.20	PASSED
2.687	32.60	69.54	36.94	15000	9	100	V	35	22.25	PASSED
4.329	32.03	69.54	37.51	15000	9	100	V	5	22.28	PASSED
6.722	31.86	69.54	37.68	15000	9	100	V	281	22.40	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

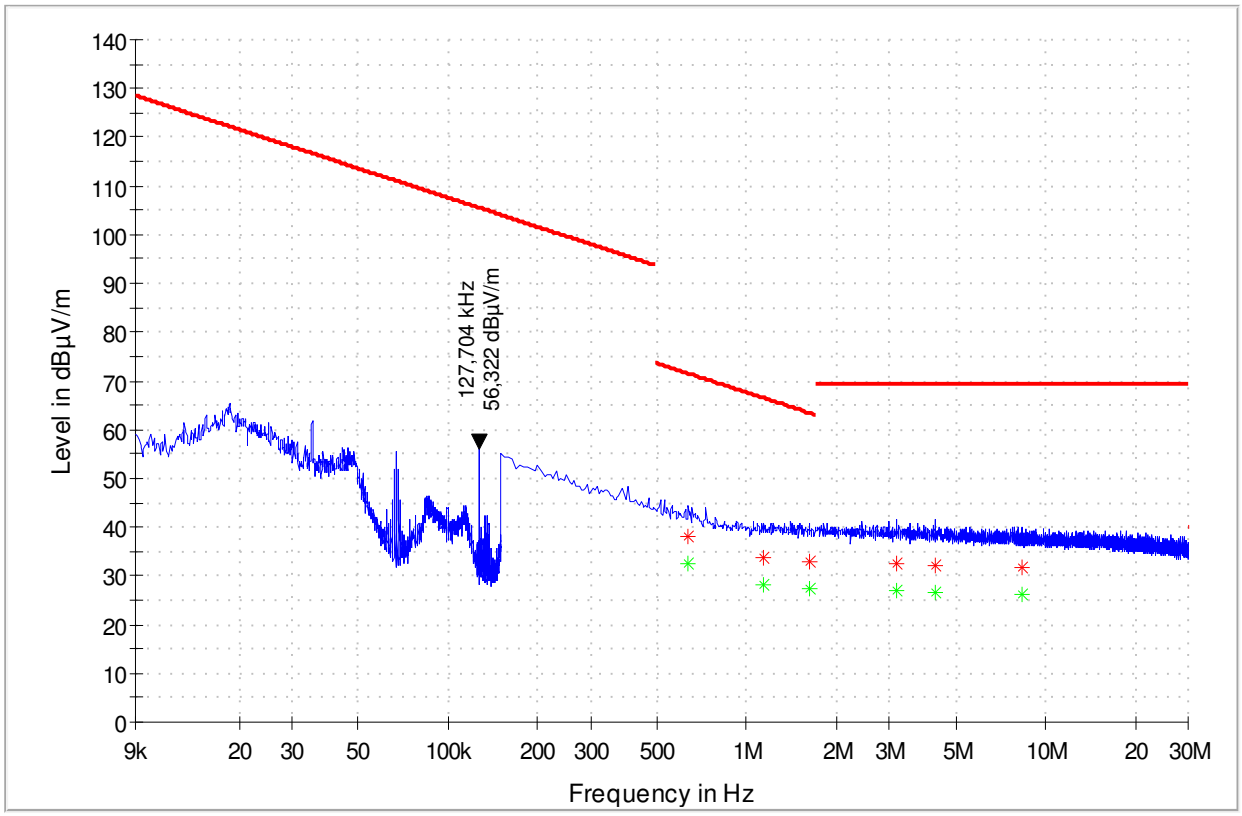
CISPR-Average detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.638	37.74	71.51	33.77	15000	9	100	V	1	22.18	PASSED
0.996	28.20	67.64	39.45	15000	9	100	V	57	22.18	PASSED
1.528	27.61	63.92	36.31	15000	9	100	V	111	22.20	PASSED
2.687	26.92	69.54	42.62	15000	9	100	V	35	22.25	PASSED
4.329	26.44	69.54	43.10	15000	9	100	V	5	22.28	PASSED
6.722	26.21	69.54	43.33	15000	9	100	V	281	22.40	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

DUT horizontal, Antenna y-position

Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 10 kHz)



Quasi-Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.638	38.02	71.51	33.50	15000	9	100	V	255	22.18	PASSED
1.140	33.59	66.47	32.88	15000	9	100	V	45	22.18	PASSED
1.623	33.06	63.40	30.34	15000	9	100	V	261	22.21	PASSED
3.175	32.38	69.54	37.16	15000	9	100	V	16	22.26	PASSED
4.269	32.11	69.54	37.43	15000	9	100	V	285	22.27	PASSED
8.364	31.57	69.54	37.97	15000	9	100	V	165	22.53	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

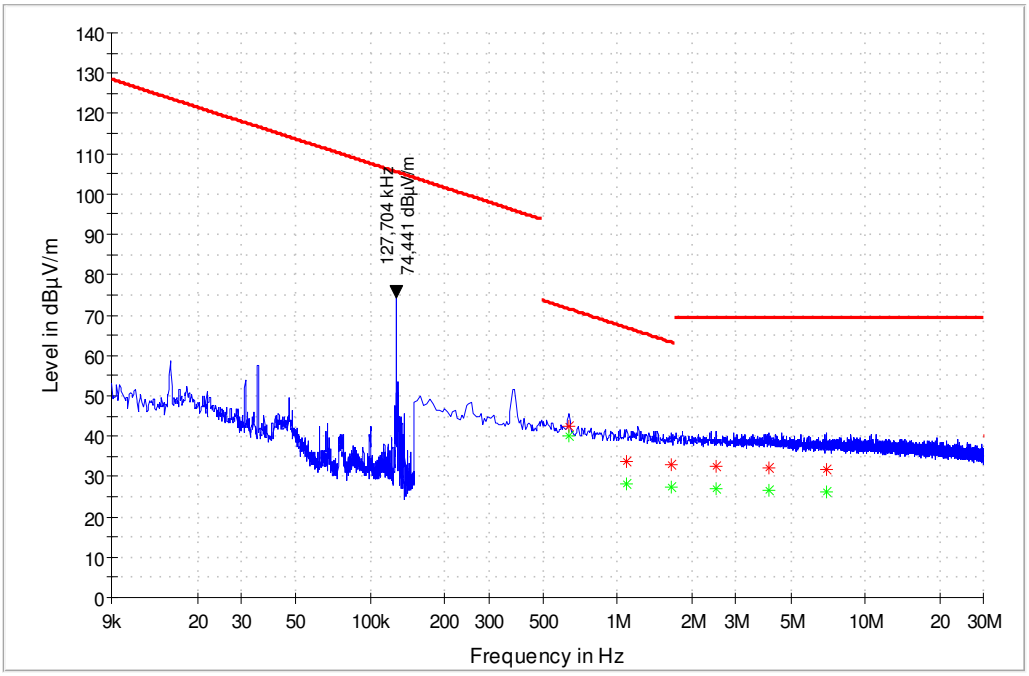
CISPR-Average detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.638	32.50	71.51	39.01	15000	9	100	V	255	22.18	PASSED
1.140	28.00	66.47	38.46	15000	9	100	V	45	22.18	PASSED
1.623	27.49	63.40	35.91	15000	9	100	V	261	22.21	PASSED
3.175	26.84	69.54	42.70	15000	9	100	V	16	22.26	PASSED
4.269	26.42	69.54	43.12	15000	9	100	V	285	22.27	PASSED
8.364	26.01	69.54	43.53	15000	9	100	V	165	22.53	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

DUT horizontal, Antenna z-position

Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 10 kHz)



Quasi-Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.638	42.51	71.51	29.01	15000	9	100	V	340	22.18	PASSED
1.090	33.68	66.85	33.17	15000	9	100	V	139	22.18	PASSED
1.647	33.03	63.27	30.24	15000	9	100	V	1	22.21	PASSED
2.498	32.60	69.54	36.94	15000	9	100	V	57	22.24	PASSED
4.085	32.21	69.54	37.33	15000	9	100	V	125	22.27	PASSED
6.971	31.79	69.54	37.75	15000	9	100	V	100	22.41	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

CISPR-Average detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

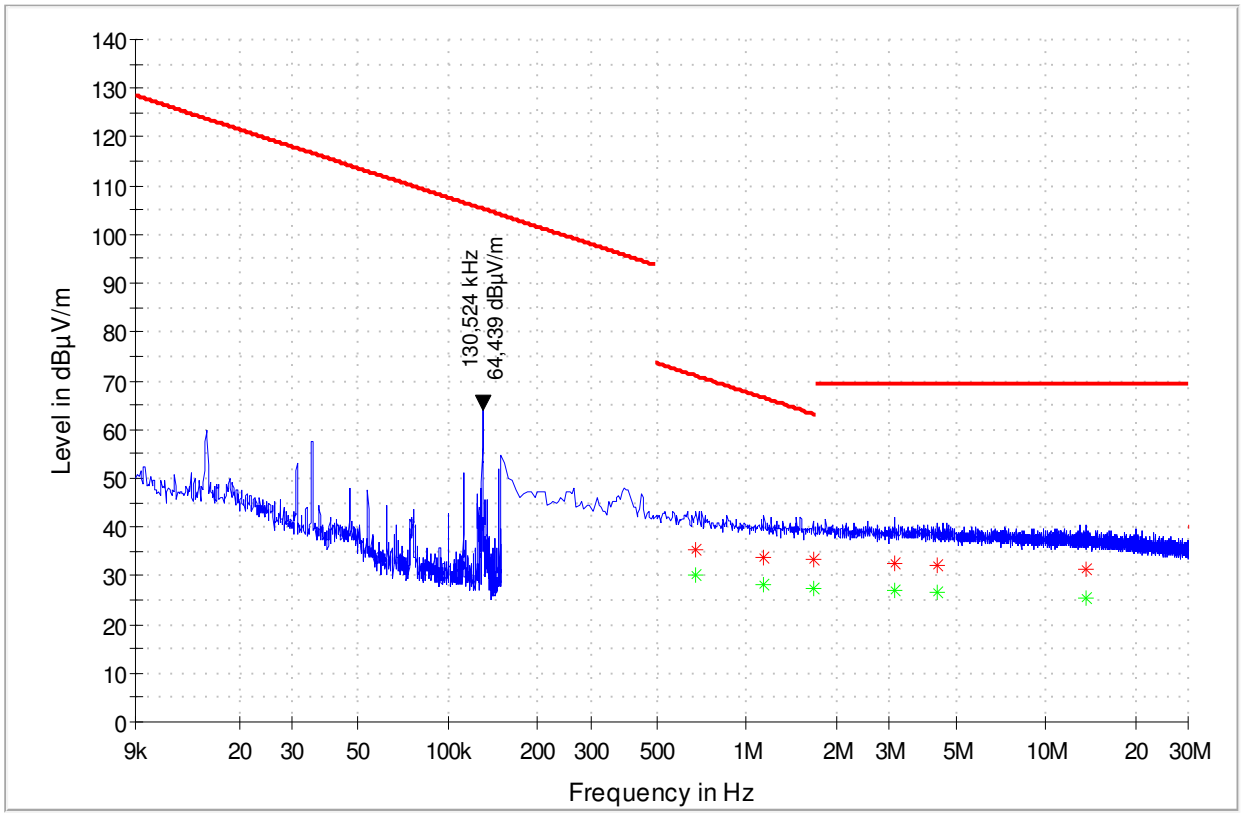
Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.638	40.15	71.51	31.36	15000	9	100	V	340	22.18	PASSED
1.090	27.98	66.85	38.87	15000	9	100	V	139	22.18	PASSED
1.647	27.46	63.27	35.81	15000	9	100	V	1	22.21	PASSED
2.498	26.95	69.54	42.59	15000	9	100	V	57	22.24	PASSED
4.085	26.57	69.54	42.97	15000	9	100	V	125	22.27	PASSED
6.971	26.22	69.54	43.32	15000	9	100	V	100	22.41	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

3.2.2 15 W modulated (EPP)

DUT horizontal, Antenna x-position

Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 10 kHz)



Quasi-Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.677	35.47	70.99	35.52	15000	9	100	V	105	22.18	PASSED
1.140	33.60	66.47	32.87	15000	9	100	V	150	22.18	PASSED
1.662	33.12	63.19	30.07	15000	9	100	V	32	22.21	PASSED
3.135	32.33	69.54	37.21	15000	9	100	V	98	22.26	PASSED
4.324	32.10	69.54	37.44	15000	9	100	V	283	22.28	PASSED
13.687	31.23	69.54	38.31	15000	9	100	V	165	22.82	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

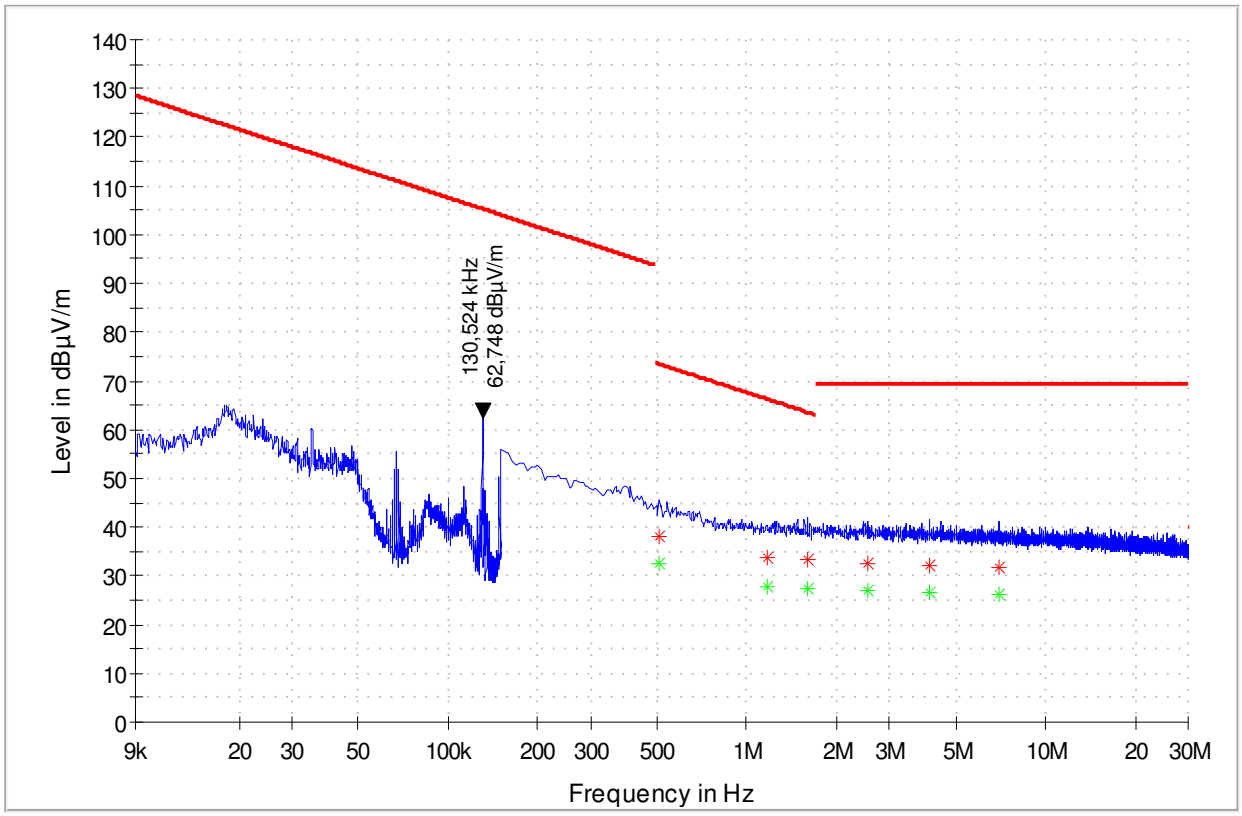
CISPR-Average detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.677	29.99	70.99	41.00	15000	9	100	V	105	22.18	PASSED
1.140	28.02	66.47	38.44	15000	9	100	V	150	22.18	PASSED
1.662	27.44	63.19	35.75	15000	9	100	V	32	22.21	PASSED
3.135	26.78	69.54	42.76	15000	9	100	V	98	22.26	PASSED
4.324	26.48	69.54	43.06	15000	9	100	V	283	22.28	PASSED
13.687	25.51	69.54	44.03	15000	9	100	V	165	22.82	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

DUT horizontal, Antenna y-position

Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 10 kHz)



Quasi-Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.508	38.12	73.48	35.37	15000	9	100	V	135	22.19	PASSED
1.165	33.57	66.28	32.71	15000	9	100	V	305	22.19	PASSED
1.593	33.19	63.56	30.38	15000	9	100	V	171	22.21	PASSED
2.523	32.59	69.54	36.95	15000	9	100	V	255	22.24	PASSED
4.105	32.18	69.54	37.36	15000	9	100	V	135	22.27	PASSED
6.931	31.81	69.54	37.73	15000	9	100	V	283	22.41	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

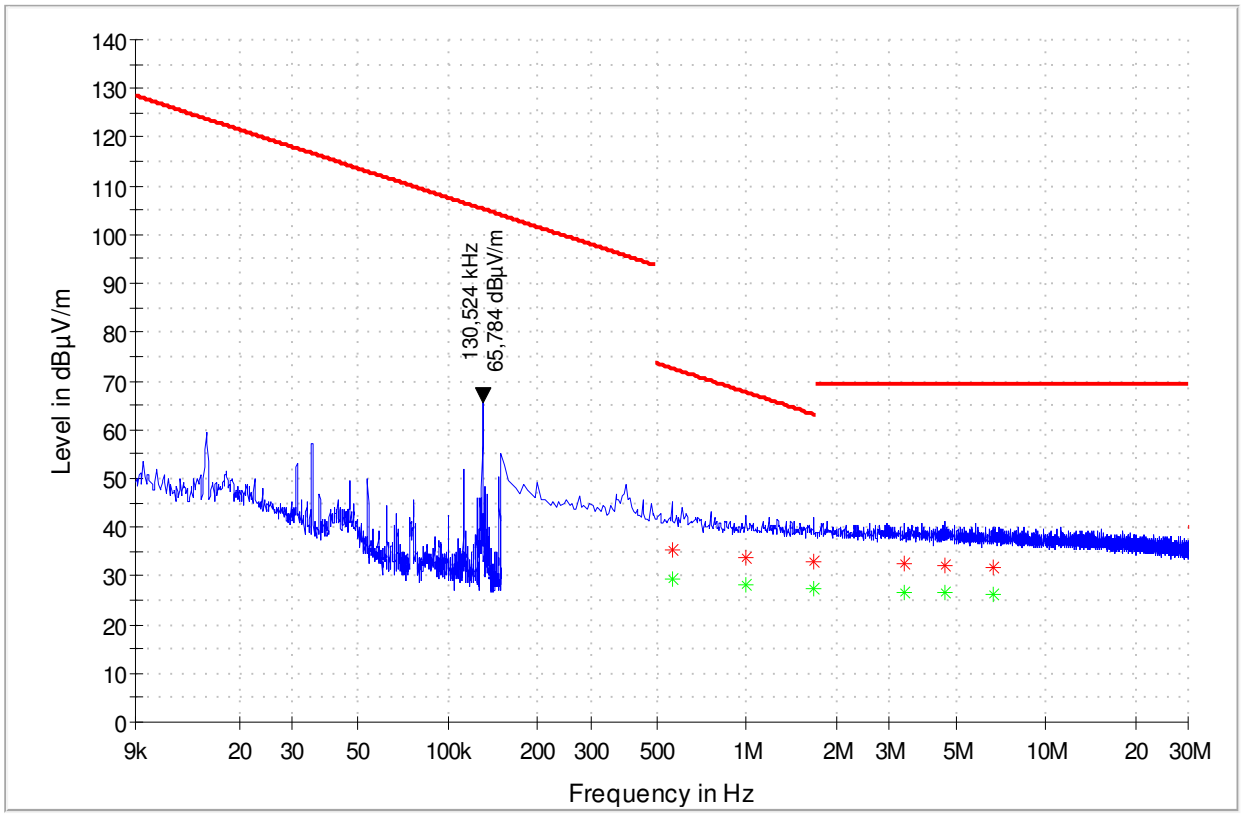
CISPR-Average detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.508	32.60	73.48	40.88	15000	9	100	V	135	22.19	PASSED
1.165	27.94	66.28	38.33	15000	9	100	V	305	22.19	PASSED
1.593	27.50	63.56	36.06	15000	9	100	V	171	22.21	PASSED
2.523	26.93	69.54	42.61	15000	9	100	V	255	22.24	PASSED
4.105	26.57	69.54	42.97	15000	9	100	V	135	22.27	PASSED
6.931	26.21	69.54	43.33	15000	9	100	V	283	22.41	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

DUT horizontal, Antenna z-position

Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 10 kHz)



Quasi-Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.563	35.13	72.60	37.47	15000	9	100	V	54	22.19	PASSED
0.991	33.74	67.68	33.94	15000	9	100	V	149	22.18	PASSED
1.672	33.09	63.14	30.05	15000	9	100	V	127	22.21	PASSED
3.354	32.33	69.54	37.21	15000	9	100	V	303	22.26	PASSED
4.618	32.08	69.54	37.46	15000	9	100	V	324	22.29	PASSED
6.627	31.77	69.54	37.77	15000	9	100	V	299	22.39	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

CISPR-Average detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

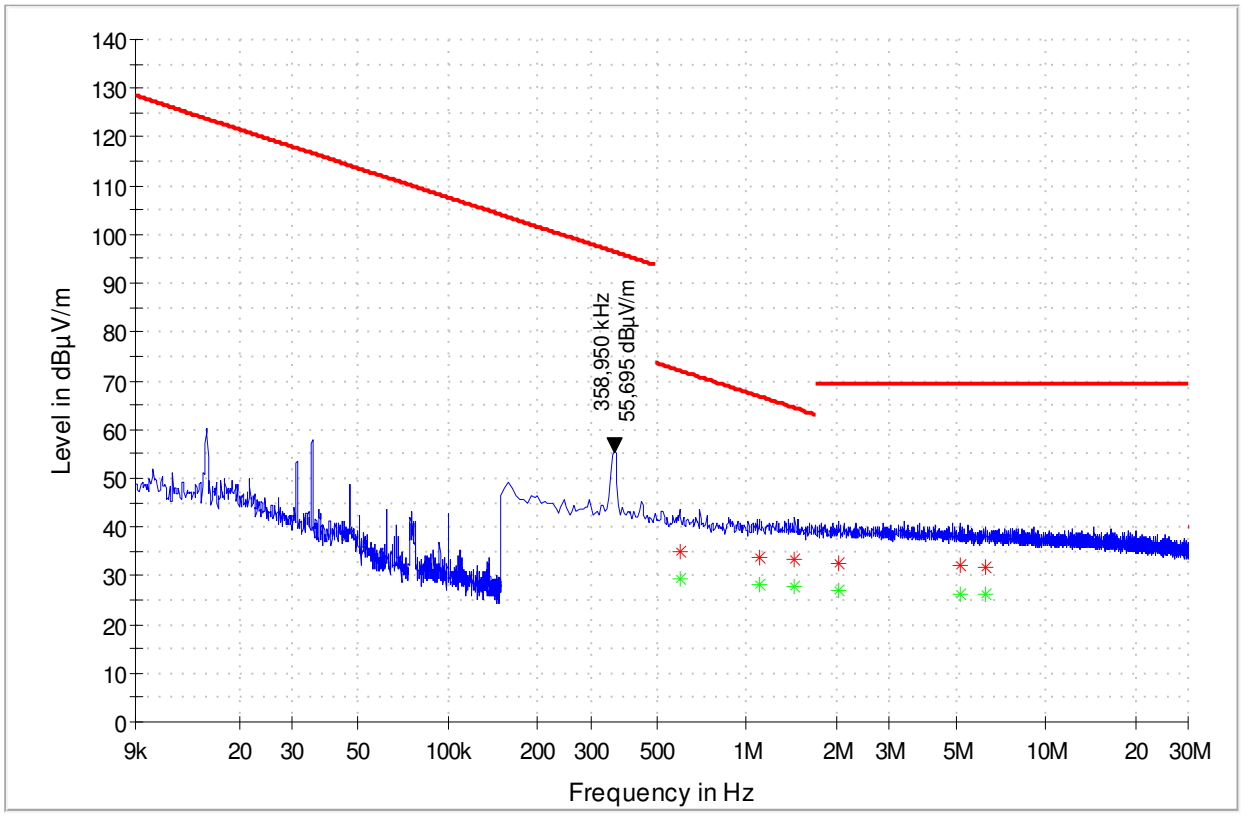
Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.563	29.47	72.60	43.13	15000	9	100	V	54	22.19	PASSED
0.991	28.12	67.68	39.57	15000	9	100	V	149	22.18	PASSED
1.672	27.39	63.14	35.75	15000	9	100	V	127	22.21	PASSED
3.354	26.70	69.54	42.84	15000	9	100	V	303	22.26	PASSED
4.618	26.47	69.54	43.07	15000	9	100	V	324	22.29	PASSED
6.627	26.22	69.54	43.32	15000	9	100	V	299	22.39	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

3.2.3 15 W modulated (MPP)

DUT horizontal, Antenna x-position

Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 10 kHz)



Quasi-Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.598	34.79	72.07	37.29	15000	9	100	V	1	22.18	PASSED
1.100	33.76	66.77	33.02	15000	9	100	V	338	22.18	PASSED
1.448	33.25	64.39	31.13	15000	9	100	V	15	22.20	PASSED
2.021	32.67	69.54	36.87	15000	9	100	V	255	22.23	PASSED
5.185	32.00	69.54	37.54	15000	9	100	V	105	22.31	PASSED
6.289	31.81	69.54	37.73	15000	9	100	V	155	22.37	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

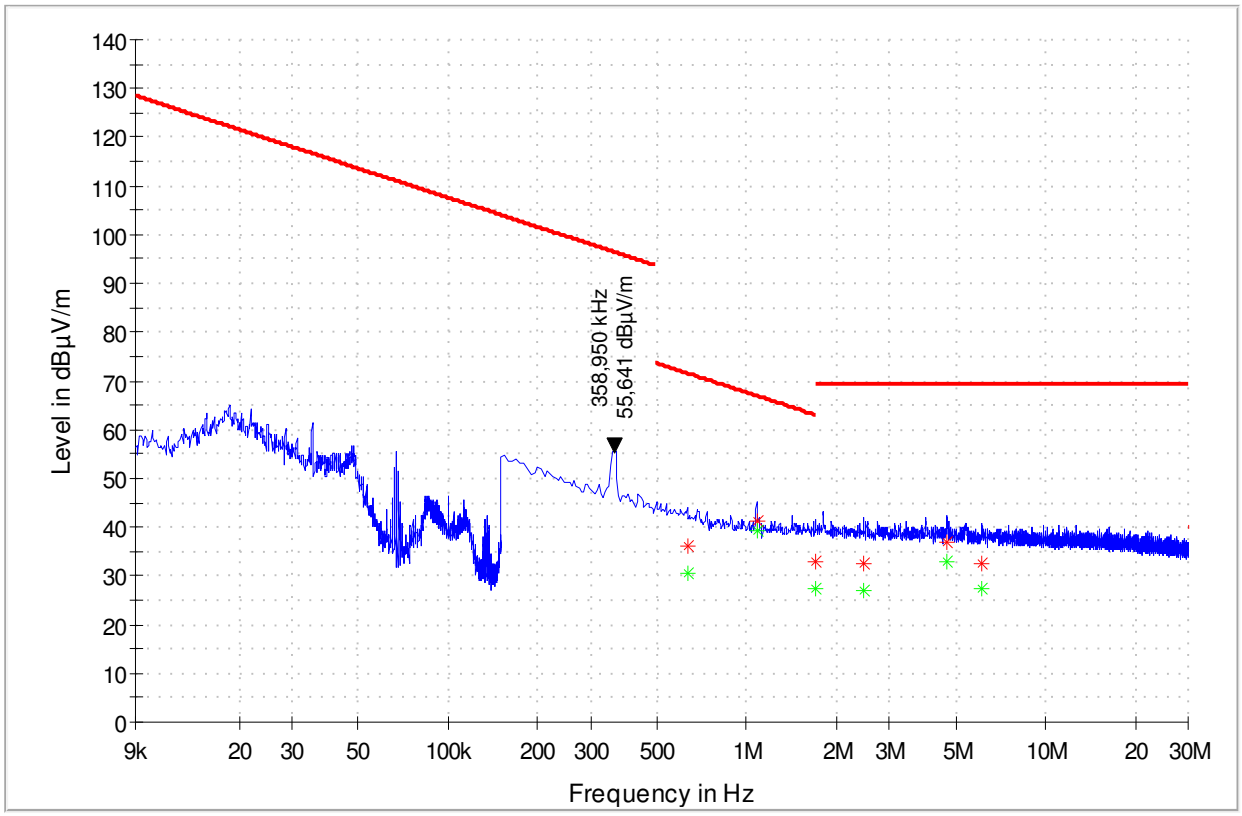
CISPR-Average detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.598	29.20	72.07	42.87	15000	9	100	V	1	22.18	PASSED
1.100	28.13	66.77	38.65	15000	9	100	V	338	22.18	PASSED
1.448	27.64	64.39	36.74	15000	9	100	V	15	22.20	PASSED
2.021	27.06	69.54	42.48	15000	9	100	V	255	22.23	PASSED
5.185	26.34	69.54	43.20	15000	9	100	V	105	22.31	PASSED
6.289	26.24	69.54	43.30	15000	9	100	V	155	22.37	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

DUT horizontal, Antenna y-position

Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 10 kHz)



Quasi-Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.633	36.24	71.58	35.34	15000	9	100	V	315	22.18	PASSED
1.080	41.24	66.93	25.69	15000	9	100	V	207	22.18	PASSED
1.702	33.04	62.98	29.95	15000	9	100	V	275	22.21	PASSED
2.448	32.61	69.54	36.93	15000	9	100	V	289	22.24	PASSED
4.672	36.73	69.54	32.81	15000	9	100	V	45	22.29	PASSED
6.095	32.58	69.54	36.96	15000	9	100	V	81	22.37	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

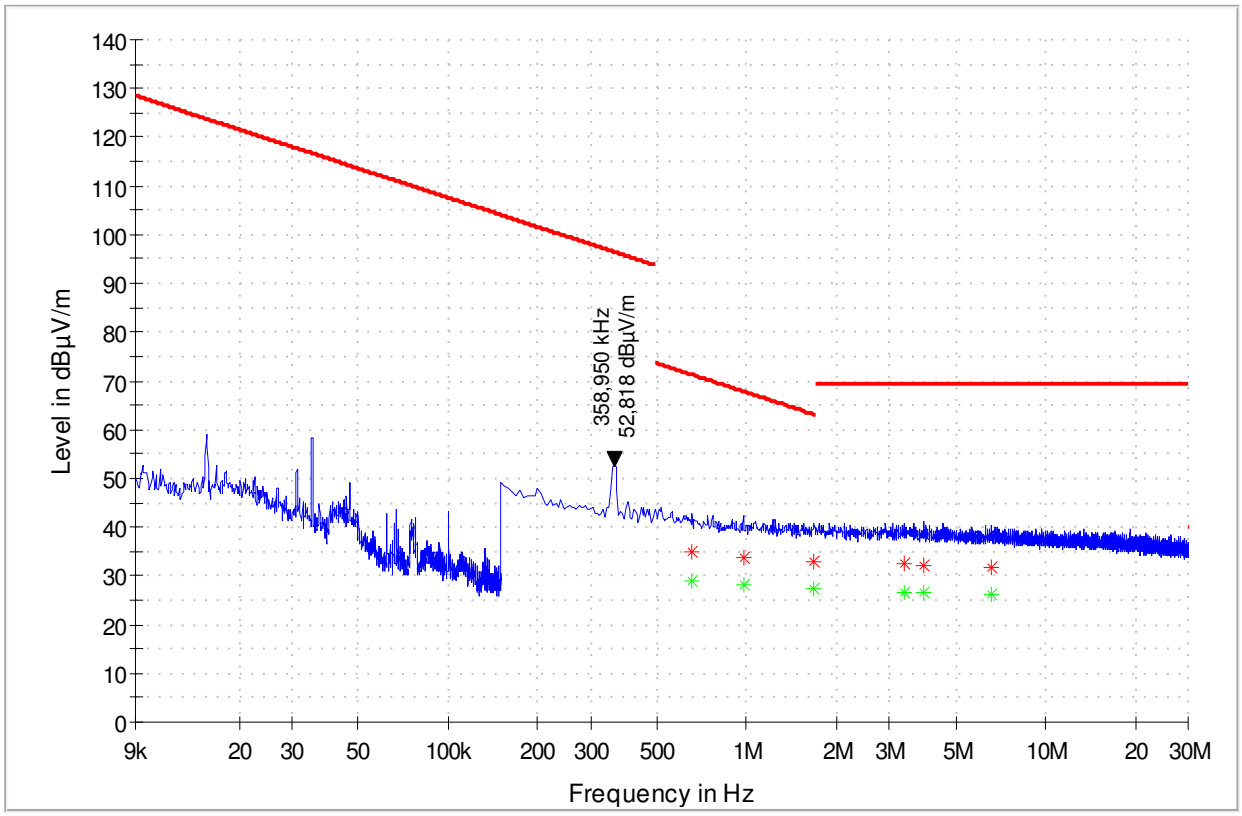
CISPR-Average detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.633	30.65	71.58	40.93	15000	9	100	V	315	22.18	PASSED
1.080	39.08	66.93	27.86	15000	9	100	V	207	22.18	PASSED
1.702	27.45	62.98	35.54	15000	9	100	V	275	22.21	PASSED
2.448	26.99	69.54	42.55	15000	9	100	V	289	22.24	PASSED
4.672	32.85	69.54	36.69	15000	9	100	V	45	22.29	PASSED
6.095	27.23	69.54	42.31	15000	9	100	V	81	22.37	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

DUT horizontal, Antenna z-position

Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 10 kHz)



Quasi-Peak detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.657	34.72	71.25	36.53	15000	9	100	V	218	22.18	PASSED
0.976	33.83	67.82	33.99	15000	9	100	V	179	22.18	PASSED
1.677	33.05	63.11	30.06	15000	9	100	V	303	22.21	PASSED
3.384	32.37	69.54	37.17	15000	9	100	V	46	22.26	PASSED
3.911	32.22	69.54	37.32	15000	9	100	V	199	22.26	PASSED
6.543	31.88	69.54	37.66	15000	9	100	V	297	22.39	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

CISPR-Average detector (< 150 kHz: RBW 200 Hz, > 150 kHz: RBW 9 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Orientation	Azimuth [deg]	Transducer [dB]	Result
0.657	29.02	71.25	42.23	15000	9	100	V	218	22.18	PASSED
0.976	28.18	67.82	39.63	15000	9	100	V	179	22.18	PASSED
1.677	27.42	63.11	35.70	15000	9	100	V	303	22.21	PASSED
3.384	26.71	69.54	42.83	15000	9	100	V	46	22.26	PASSED
3.911	26.61	69.54	42.93	15000	9	100	V	199	22.26	PASSED
6.543	26.24	69.54	43.30	15000	9	100	V	297	22.39	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

4. Radiated emissions above 30 MHz

EUT with DUT number	260000
Accessories with DUT numbers	260002, 250664 (5W BPP), 230676 (15W EPP), 250417 (15W MPP)
Operation voltage	13.2 V / DC
Result	PASSED
Remarks	none
Temperature / humidity	+15 °C to +35 °C / 20 % to 75 %
Date of measurement	27-Jan-2026
Test responsible	Frank Wittmann
Test system SW / version / configuration	Rohde & Schwarz EMC32 / 11.70.00 / v2.3

4.1. Test method and limit

The measurement is made according to ANSI C63.10 and FCC Part 15.205, 15.209 as follows:

- ⇨ The EUT is placed on a nonconductive table in the centre of the turntable.
- ⇨ The DUT is positioned in horizontal position on the test table.
- ⇨ The measurement is divided into the Preliminary Measurement and the Final Measurement.
  The Preliminary Measurement and the Final Measurement is performed in 3 m distance without floor absorbers by rotating the turntable of 360 degrees and moving the antenna height between 1-4 m.
- ⇨ During the Preliminary Measurement the suspected frequencies are searched by using the PK detector.
  In the Final Measurement the exact frequency and amplitude of these emissions are re-measured by using the applicable QP detector.
- ⇨ The Final Measurement is performed if the Preliminary Measurement results are closer than 20 dB to the permissible limit.
- ⇨ The measurement results are obtained as described in the following formula: E [dBµV/m] = U_{RX} + A_{CF}
  Where U_{RX} is receiver reading and A_{CF} is total correction factor including cable loss, antenna factor and preamplifier gain (A_{CF} = L_{CABLES} + AF - G_{PREAMP}).
- ⇨ Example values for calculation of one final QP measurement frequency at 30.24 MHz, see result in 4.2:
  E [dBµV/m] = 34.92 - 13.90 = 21.02

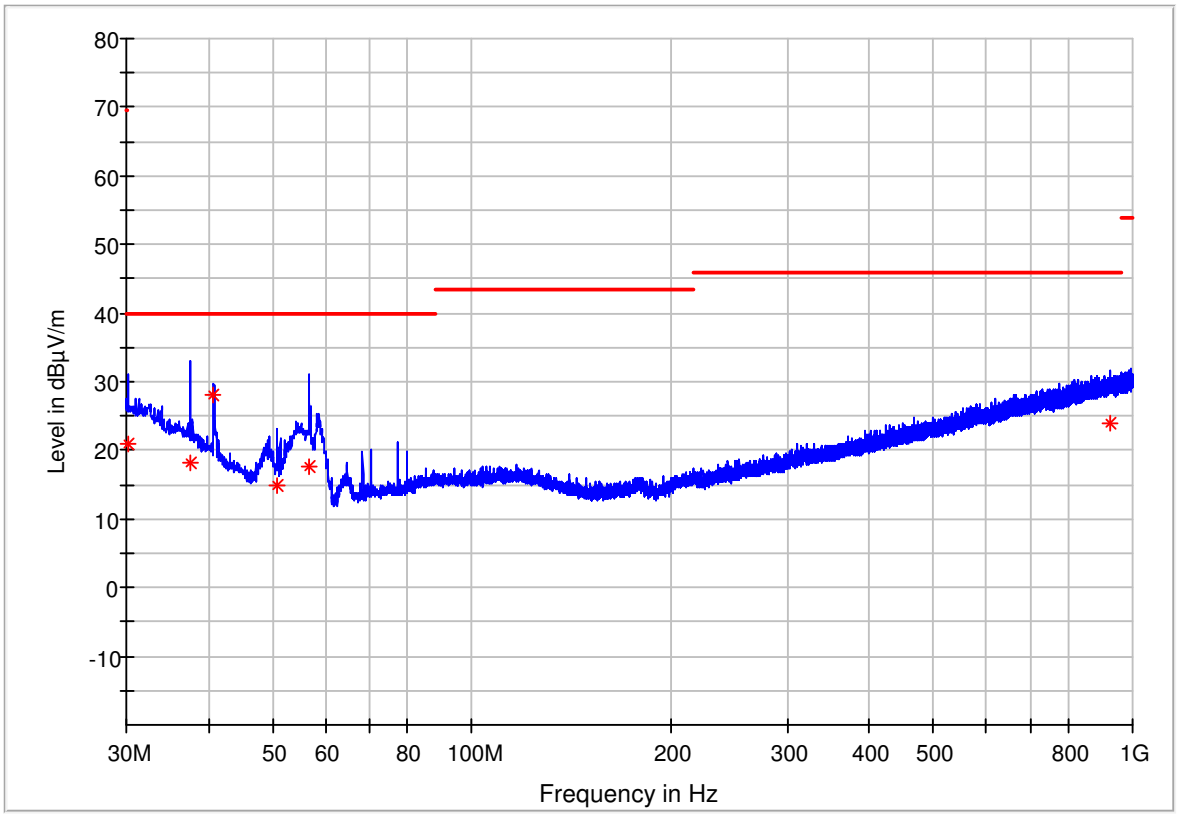
Limits for radiated emission measurements at 3 m measurement distance.

Frequency range [MHz]	Limit [µV/m]	Limit [dBµV/m]	Detector
30 – 88	100	40	QP
88 – 216	150	43.5	QP
216 – 960	200	46	QP
960 – 1000	500	54	QP

4.2. Test results

4.2.1 15 W modulated (EPP)

Peak detector (RBW 300 kHz)



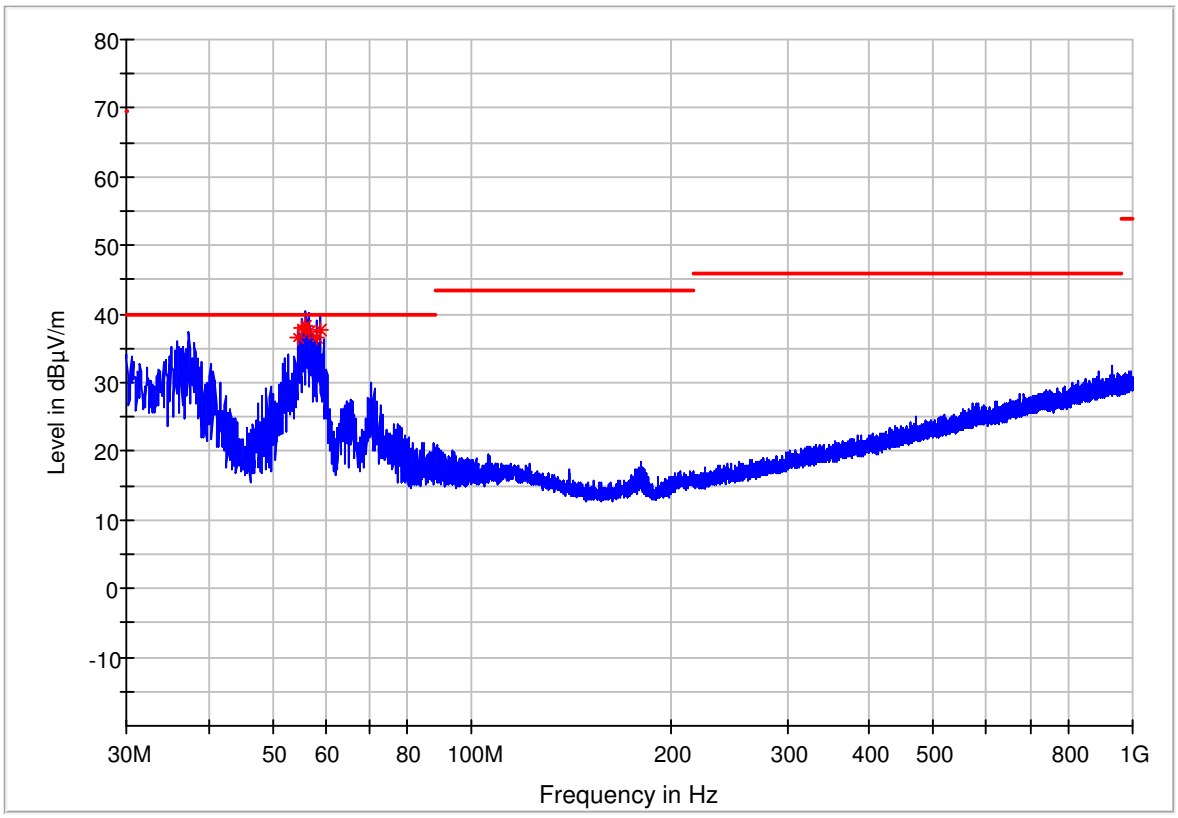
Quasi-Peak detector (RBW 120 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Polarization	Azimuth [deg]	Transducer [dB]	Result
30.243	21.02	40.00	18.98	15000	120	218	V	223	-13.90	PASSED
37.566	18.10	40.00	21.90	15000	120	235	V	226	-18.90	PASSED
40.670	28.11	40.00	11.89	15000	120	85	V	204	-20.90	PASSED
50.710	14.95	40.00	25.05	15000	120	115	V	0	-27.20	PASSED
56.724	17.53	40.00	22.47	15000	120	295	V	225	-29.00	PASSED
922.206	23.95	46.02	22.07	15000	120	385	V	150	-8.50	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

4.2.2 15 W modulated (MPP)

Peak detector (RBW 300 kHz)



Quasi-Peak detector (RBW 120 kHz)

Frequency [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Meas. Time [ms]	Bandwidth [kHz]	Height [cm]	Antenna Polarization	Azimuth [deg]	Transducer [dB]	Result
54.687	36.62	40.00	3.38	15000	120	97	V	309	-28.73	PASSED
55.414	37.96	40.00	2.04	15000	120	115	V	4	-28.88	PASSED
56.142	38.26	40.00	1.74	15000	120	117	V	15	-28.98	PASSED
56.772	37.40	40.00	2.60	15000	120	128	V	226	-29.03	PASSED
58.227	36.67	40.00	3.33	15000	120	145	V	0	-29.02	PASSED
58.955	37.82	40.00	2.18	15000	120	143	V	4	-28.98	PASSED

No further emissions found less than 20 dB to the regulatory limit and no emission found in the restricted bands of operation.

5. Occupied bandwidth

EUT with DUT number	260001
Accessories with DUT numbers	250238, 250664 (5W BPP), 230677 (15W EPP), 250412 (15W MPP)
Operation voltage	13.2 V / DC
Result	PASSED
Remarks	none
Temperature / humidity	+15 °C to +35 °C / 20 % to 75 %
Date of measurement	21-Jan-2026 to 26-Jan-2026
Test responsible	Sebastian Kattinger
Test system SW / version	Emissions_Radio_CE/FCC / v1.99

5.1. Test method and limit

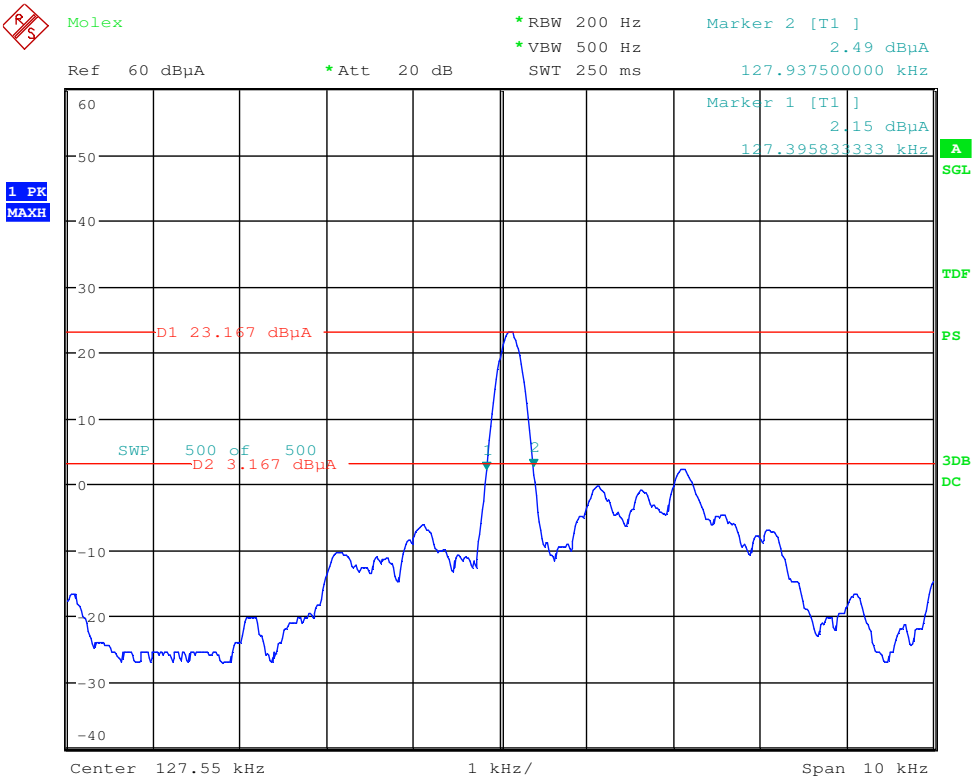
The measurement is made according to FCC Part 15.215(c).

General limit for occupied bandwidth measurements

20 dB Bandwidth Limit [kHz]
N.A.

5.2. Test result 20 dB OBW

5.2.1 5 W unmodulated (BPP)

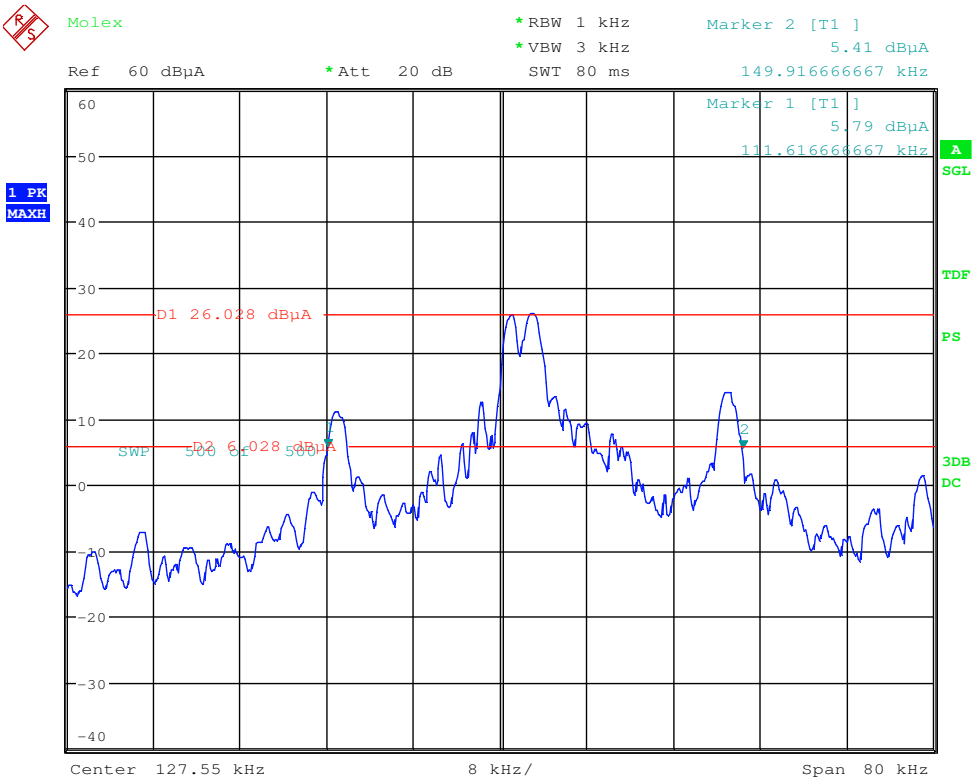


20dB Bandwidth / 0.128MHz / WPT_127.55kHz_5W_unmodulated

Date: 22.JAN.2026 08:08:58

Frequency [kHz]	20 dB OBW [kHz]
127.55	0.542

5.2.2 15 W modulated (EPP)

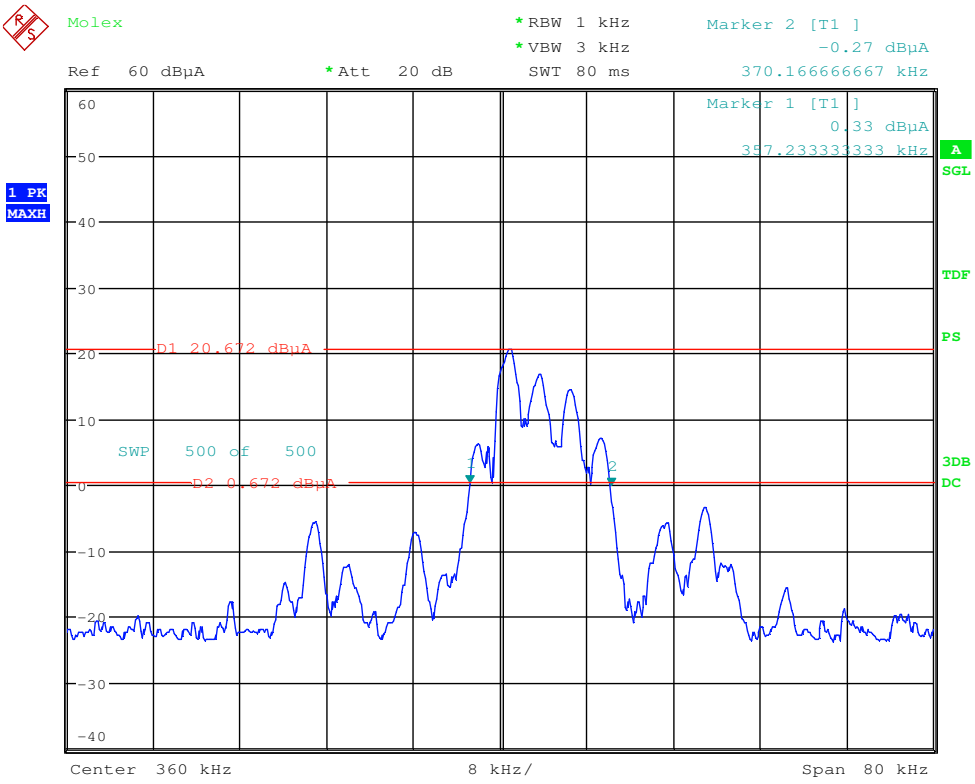


20dB Bandwidth / 0.128MHz / WPT_127.55kHz_15W_modulated

Date: 26.JAN.2026 09:19:22

Frequency [kHz]	20 dB OBW [kHz]
130.55	38.30

5.2.3 15 W modulated (MPP)



20dB Bandwidth / 0.360MHz / WPT 360.00 kHz_15W_modulated
Date: 21.JAN.2026 08:06:47

Frequency [kHz]	20 dB OBW [kHz]
360.00	12.93

6. Test Equipment

6.1. Conducted radio measurements

Equipment	Manufacturer	Type	SERIAL-NO.	Actual Calibration	Next Calibration
Signal Generator	ROHDE & SCHWARZ	SMB100A	181275	07.05.2025	07.05.2026
Vector Signal Generator	ROHDE & SCHWARZ	SMBV100A	263158	30.04.2025	30.04.2026
EMI Test Receiver	ROHDE & SCHWARZ	ESU26	100077	29.04.2025	29.04.2026
Power Supply	Hewlett Packard - Agilent	E3632A	MY40011318	31.05.2023	31.05.2026
Climatic Chamber	Vötsch	VT4002	521/85094	05.12.2024	05.12.2026

6.1.1 Passive devices

Equipment *)	Manufacturer	Type	SERIAL-NO.
Loop antenna 6 cm	ETS-Lindgreen	7405-901B	Radio 0001
10 dB attenuator	Pasternack	PE7001-10	Radio 0002
RF-cable 2m	Huber & Suhner	Sucoflex 104	563441/4
RF-cable 20 cm	Huber & Suhner	Sucoflex 104	199784/4
Directional coupler	Tyco electronics	M/A-COM 0.5 – 18 GHz	96341

*) Passive components included in used signal path.

6.2. Radiated emission measurements

Equipment	Manufacturer	Type	SERIAL-NO.	Actual Calibration	Next Calibration
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB-1519	1519-056	05.12.2023	05.12.2026
Bilog Antenna	ROHDE & SCHWARZ	HL562E	100191	02.07.2025	02.07.2028
Horn Antenna	Schwarzbeck	BBHA-9120-D	01617	22.01.2025	22.01.2028
MW Antenna	Schwarzbeck	BBHA-9170	01617	25.01.2023	25.02.2026
Antenna	Schwarzbeck Mess-Elektronik	VAMP-9243	9243-486	02.05.2024	02.05.2027
Signal Generator	ROHDE & SCHWARZ	SML01	100652	26.04.2024	26.04.2027
Signal Generator	ROHDE & SCHWARZ	SMB100A	181275	07.05.2025	07.05.2026
Vector Signal Generator	ROHDE & SCHWARZ	SMBV100A	263158	30.04.2025	30.04.2026
Power Supply	Hewlett Packard - Agilent	E3632A	KR75303301	31.05.2023	31.05.2026
EMI Test Receiver	ROHDE & SCHWARZ	ESU26	100077	29.04.2025	29.04.2026
EMI Test Receiver	ROHDE & SCHWARZ	ESW44	101733	05.05.2025	05.05.2026
Antenna	ROHDE & SCHWARZ	HK-116	825177/0017	02.07.2025	02.07.2028
Antenna	ROHDE & SCHWARZ	HL223	832369/006	02.07.2025	02.07.2028
Antenna	ROHDE & SCHWARZ	HL223	100731	02.07.2025	02.07.2028
Antenna	Schwarzbeck	UBA 9116	9116-396	30.06.2023	30.06.2026
Antenna	Emco	3115	9810-5588	07.03.2024	07.03.2027

6.2.1 Passive devices

Equipment *)	Manufacturer	Type	SERIAL-NO.
OSP Switch Unit	ROHDE & SCHWARZ	OSP-320	103089
OSP Switch Unit	ROHDE & SCHWARZ	OSP-230	101023
Low Noise Amplifier	Miteq	LNA-40-00100800-15-10P	15383
RF Attenuator	Huber & Suhner	3dB DC-18GHz	751933 No.1
RF Attenuator	Huber & Suhner	3dB DC-18GHz	751933 No.2
RF Cable	Huber & Suhner	Sucoflex 104	506968
RF Cable	Huber & Suhner	Sucoflex 104	506967
RF Cable	Huber & Suhner	Sucoflex 126EA	517430
RF Cable	Huber & Suhner	Sucoflex 126PEA	0815

*) Passive components included in used signal paths.

END OF REPORT