

Prüfbericht-Nr.: <i>Test report no.:</i>	DE2416NH 002	Auftrags-Nr.: <i>Order no.:</i>	1170190_50	Seite 1 von 40 <i>Page 1 of 40</i>
Kunden-Referenz-Nr.: <i>Client reference No.:</i>	BPA N°1324053161-D	Auftragsdatum: <i>Order date:</i>	2024-07-09	
Auftraggeber: <i>Client:</i>	HID TEXTILE SERVICES SARL, VOIE ARIANE ATHELIA I 180, 13600 LA CIOTAT, Frankreich			
Prüfgegenstand: <i>Test item:</i>	Multi-IO-hub			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	Medio L40 Reader			
Auftrags-Inhalt: <i>Order content:</i>	Prüfung der Funkparameter nach FCC & ISED <i>Test of radio parameters acc. to FCC & ISED</i>			
Prüfgrundlage: <i>Test specification:</i>	Vollprüfung / Complete test FCC CFR 47 Part 15 Subpart C- §15.225			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-11-04	There are no photos of the EUT in this report acc. to the confidentiality letter. For EUT- and test setup photos please see the Photo Documentation to this report Number.		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003855706-001 to 004			
Prüfzeitraum: <i>Testing period:</i>	10.12.2024- 16.12.2024			
Ort der Prüfung: <i>Place of testing:</i>	Nürnberg <i>Nuremberg</i>			
Prüflaboratorium: <i>Testing laboratory:</i>	Wireless Labor <i>Wireless Test Lab</i>			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	07.10.2025 	genehmigt von: <i>authorized by:</i>	08.10.2025 	
Datum: <i>Date:</i>	Signiert von: Matthias Kraeutlein	Datum: <i>Issue date:</i>	Signiert von: Patrick Reusch	
Stellung / Position	Sachverständige(r)/Expert	Stellung / Position	Sachverständige(r)/Expert	
Sonstiges / Other:	Dieser Prüfbericht DE2416NH 002 ersetzt den Prüfbericht DE2416NH 001 (siehe Änderungsverzeichnis) / The test report DE2416NH 002 replaces the test report DE2416NH 001 (see change history).			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet			
* Legend:	P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark</i>				

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Anmerkungen Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.</i> <i>Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. <i>The decision rule for statements of conformity in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report.</i>

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Produktbeschreibung
Product description

1	Test item	RFID UF Reader
2	Typ-No.	DDP14861
3	Test sample obtaining	☒ Sending by customer ☐ Sampling by TÜV Rheinland Group ☐ others:
4	Serial-No.	-
5	Description of EUT	RFID UF Reader with 4 Antenna Ports Only Port 1 measured Port 2-4 identical, declared by customer The Medio L40 RFID HF reader combined to an external antenna allow to read HF tags using Digital Signal Processing (DSP) and RF Frond End technology to achieve breakthrough performance in read range and read speed
6	Supported radio technologies	RFID
7	Max RF output power (declared)	2W with LSA4-SHD antenna
8	Operating Frequency (declared)	13.56 MHz
9	Channel Bandwidth (declared)	Max. 30kHz (compliant with ISO/IEC 15693)
10	Number of Channels	1
11	Rated Voltage / Frequency	100V-240V 50/60Hz
12	Radio Module / Antenna Type	☐ Radio module with antenna on module PCB ☐ Radio module with dedicated antenna ☒ Radio module with user accessible antenna connector
13	Antenna Name	LSA4-SHD
14	Antenna Type	☐ Integral antenna ☐ Dedicated antenna ☒ Permanent antenna connector
15	Antenna amount of chains	4
16	Antenna Gain (declared)	no information available
17	Software	no information available

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Produktbeschreibung
Product description

18	Hardware	Version B1
19	Used Samples	A003855706-001 = DDP13762B1
20	Companion Device	N/A
21	Accessory Devices	N/A
22	Data Cable	Coaxial shielded cable with ferrites
23	I/O Ports	N/A
24	Temperature Range	0 to 40°C
25	Environment	Indoor
26	FCC ID	JQ6MEDIOL40

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Absatz Clause	Anforderungen – Prüfungen / Requirements - Tests	Bemerkungen / Remarks	Ergebnis Result
FCC 15.203	Antenna Requirement	Must be professionally installed The installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded	P ☒ F ☐ N/A ☐ N/T ☐
FCC 15.215 (c)	20dB Bandwidth	-	P ☒ F ☐ N/A ☐ N/T ☐
FCC 15.225 (a)(b)(c)	Fundamental Field Strength within the band 13.110-14.010 MHz	-	P ☒ F ☐ N/A ☐ N/T ☐
FCC 15.225 (d)	Radiated Spurious Emission outside of the 13.110-14.010 MHz band	-	P ☒ F ☐ N/A ☐ N/T ☐
FCC 15.225 (e)	Frequency Stability	-	P ☒ F ☐ N/A ☐ N/T ☐
FCC 15.207	AC Power Conducted Emissions	-	P ☒ F ☐ N/A ☐ N/T ☐

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1 EUT Classification

1.1 Wireless technologies and frequencies supported by the EUT

The named technologies are only those falling in the specification of the applied standard.

Technology	Frequency Range (TX)	Supported by the EUT	Evaluated in this report
RFID	13.11 – 14.01 MHz (fc=13.56 MHz)	☒	☒

1.2 Standard specific classification of the EUT

1.2.1 Applied standards

FCC CFR 47 Part 15 Subpart C - §15.225

1.2.2 Test Methods and Guidance Documents

ANSI C63.10:2013

KDB 558074 D01 DTS Measurement Guidance v05

KDB 662911 D01 Multiple Transmitter Output v02r01

KDB 174176 D01 Line Conducted FAQ v01r01

KDB 353028 D01 Antennas Part 15 Transmitters v01

1.2.3 Type of equipment

☒	Tabletop Equipment
☐	Floor-Standing Equipment
☐	Equipment that can be used in multiple orientations
☐	Hand held Equipment

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2 General

2.1 Registration

The measurement facilities for conducted and radiated disturbance measurements of the TÜV Rheinland LGA Products have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules. Measurement data will be accepted in conjunction with applications for Certification under Parts 15 and 18 of the Commission's Rules.

FCC Registration Number: 939976

Bundesnetzagentur Registration Number: BNetzA-CAB-17/21-16

The measurement facilities are also recognized by Innovation, Science and Economic Development (ISED) Canada to test to Canadian radio equipment requirements.

Company Number: 11235A

CAB Identifier: DE0018

2.2 Equipment modifications

No modifications were found to be necessary in order to perform the tests or to achieve compliance.

2.3 Test modes

Mode	Description	Mode configuration
1	TX	The RFID function starts immediately after the EUT is turned on

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3 Test conditions

3.1 General

The DUT was tested standalone on the transmit test mode in normal test conditions and the conditions defined in the frequency stability test.

3.2 Normal test conditions

Environmental condition	Parameter	Range
Temperature	°C	22
Relative humidity	%	34
Supply voltage	Volts AC	120 V / 60 Hz

3.3 Antenna assemblies

EUT with Antenna connector so tests were done in conducted and radiated mode.

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3.4 Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16-4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the quality system acc. to ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation.

The manufacturer has the sole responsibility of continued compliance of the device.

Test	Value	Unit	Range
Frequency Error	2,7 *10 ⁻⁸	Hz	-
Frequency Stability under low voltage conditions			
Time	1,1*10 ⁻⁹	s	-
Conducted Carrier Power	1.0	dB	9k-1GHz
	1.7	dB	1GHz-6GHz
Conducted Spurious Emissions (RX/TX)	2.8	dB	6GHz-40GHz
Occupied Bandwidth (OBW)	0.1	%	-
TX Power Spectral Density	4.2	mW	9kHz - 6GHz
	1.6	dB	9kHz - 6GHz
Dwell Time	4,6 *10 ⁻⁷	Hz	-
Frequency Separation			-
Measurement of conducted emissions at the power supply connection to LISN	2.3	dB	9kHz – 150kHz
	2.2	dB	150kHz – 30MHz
Measurement of the field strength at distance 3m	1.6	dB	9k-150kHz
	4.5	dB	30-1000MHz
	5	dB	1-6GHz
	5.3	dB	6-40GHz
Temperature	0.8	K	-
Humidity	4	%	-
Voltage (AC/DC)	1.0	%	-

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4 Test results in detail

4.1.1 Requirements / Limits

FCC Part 15, Subpart C, §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited [...]. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT must be professionally installed

See Medio L40 Professional Installation Requirement pdf

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4.2 20 dB bandwidth

4.2.1 Requirements / Limits

FCC Part 15, Subpart C, §15.215

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.

4.2.2 Test Method

Using a direct conducted antenna port setup was not possible to measure the 20 dB Bandwidth, so a radiated test site with H-field loop Antenna was used for the measurement. The 20 dB bandwidth is measured according to ANSI C63.10:2013 clause 6.9.2.

4.2.3 Test Setup

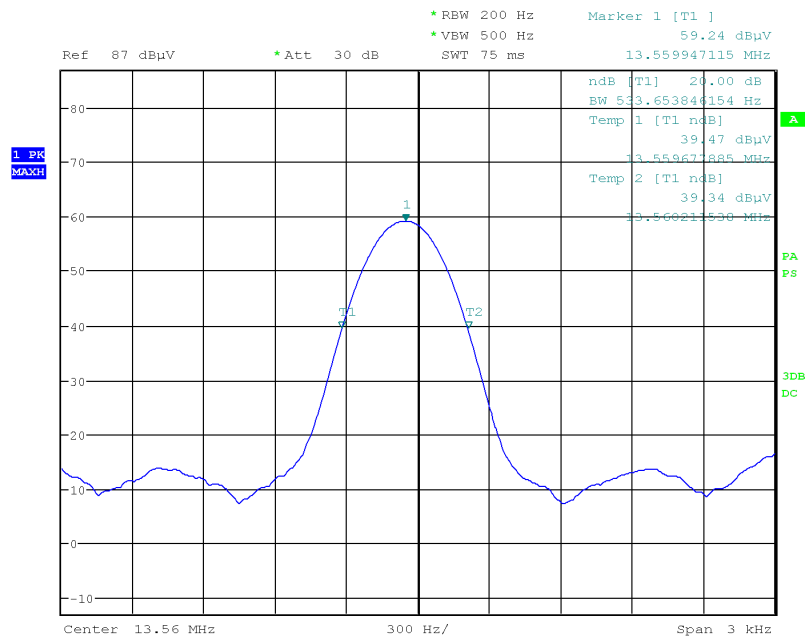
EUT		A003855706-001
Test Condition		Normal conditions
Chamber details		☐ 3m Fully Anechoic Chamber (FAC) ☒ 10m Semi Anechoic Chamber (SAC) ☐ Shielded room
Measurement positioning		Distance: EUT height: Antenna height: ☐ 3m ☐ 1.5m ☐ 1.5m ☒ 10m ☒ 0.8m ☒ 1m
		☐ N/A
Companion device		-
Operation mode		1
Spectrum Analyzer	Centre Frequency	13.56 MHz
	Resolution Bandwidth	200 Hz
	Video Bandwidth	500 Hz
	Span	3 kHz
Further parameters		-
Test engineer		Matthias Kräutlein

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4.2.4 Test Results



Date: 10.DEC.2024 11:56:38

Centre Frequency	20 dB Bandwidth (Hz)
13.559947 MHz	533.653846154

Frequency	Measured frequency (MHz)	Edge Limit (MHz)	Test Result
Lower	13.559677885	13.110	Pass
Upper	13.560211538	14.010	Pass

Final test result	Pass
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4.3 Radiated Emission

4.3.1 Requirements / Limits

4.3.1.1 Fundamental Field Strength within the band 13.110-14.010 MHz

FCC Part 15, Subpart C, §15.225 (a)

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

FCC Part 15, Subpart C, §15.225 (b)

Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

FCC Part 15, Subpart C, §15.225 (c)

Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

The measured values are corrected with an inverse linear distance extrapolation factor (40 dB/decade) according FCC 15.31 (f)(2).

Frequency [MHz]	Limit [μ V/m]	Measurement distance [m]	Limits [dB μ V/m]
13.11-13.41 13.71-14.01	106@30m	3	80.5@3m
13.41-13.553 13.567-13.71	334@30m	3	90.5@3m
13.553 – 13.567	15848@30m	3	124.0@3m

4.3.1.2 Radiated Spurious Emission outside of the 13.110-14.010 MHz band

FCC Part 15, Subpart C, §15.225 (d)

The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

FCC Part 15, Subpart C, §15.209, Radiated Emission Limits

Frequency [MHz]	Limit [μ V/m]	Measurement distance [m]	Limits [dB μ V/m]
0.009 – 0.49	2400/F(kHz)@300m	3	(48.5 – 13.8)@300m
0.49 – 1.705	24000/F(kHz)@30m	3	(33.8 – 23.0)@30m
1.705 – 30	30@30m	3	29.5@30m

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Used conversion factor:

$$\text{Limit [dB}\mu\text{V/m]} = 20 \log (\text{Limit } [\mu\text{V/m]} / 1\mu\text{V/m})$$

Frequency [MHz]	Limit [$\mu\text{V/m}$]	Measurement distance [m]	Limits [dB $\mu\text{V/m}$]
30 – 88	100@3m	3	40.0@3m
88 – 216	150@3m	3	43.5@3m
216 – 960	200@3m	3	46.0@3m
960 - 40000	500@3m	3	54.0@3m

§15.35(b) ..., there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit....

4.3.2 Test Method

4.3.2.1 Preliminary Test

A test program that controls instrumentation and data logging was used to automate the preliminary RF emission test procedure. Preliminary emission profile testing was performed inside the anechoic chamber. The receiving antenna was placed at a distance of 3m for all measurements. Measurement equipment was located outside of the chamber. A video camera was placed inside the chamber to view the EUT. The different measurement setup for each frequency range are shown below.

9 kHz - 30 MHz

Following Measurement Setup is used:

Test Site	Semi-anechoic chamber
Receiving Antenna	Loop antenna (HFH 2)
Receiving Antenna Height	1 m
Receiving Antenna Polarisation	Parallel – Perpendicular
EUT Table	1.0m x 1.5m non-conductive table 80cm above the floor
EUT Turn Table Step Size	22.5°
Receiver Configurations	Average and peak detectors
	RBW: 200Hz (9 - 150 kHz) and 9 kHz (150 kHz – 30 MHz)
	Step Size: 50Hz (9-150kHz) and 2.25kHz (150k-30MHz)
	Sweep Time: 100ms (FFT)

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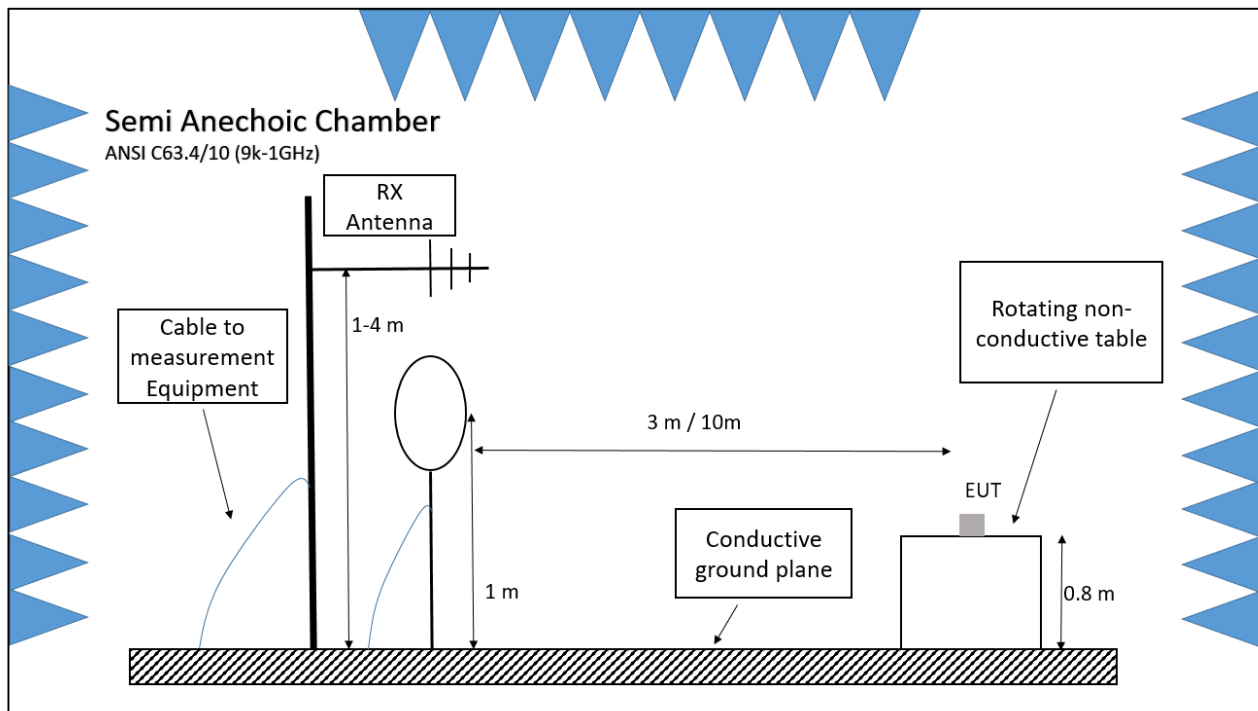
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30 MHz - 1 GHz

Following Measurement Setup is used:

Test Site	Semi-anechoic chamber
Receiving Antenna	Hybrid Antenna VULB 9168
Receiving Antenna height	Varied (1m to 4 m, step size 1m)
Receiving Antenna Polarisation	Horizontal– Vertical
EUT Table	1.0m x 1.5m non-conductive table 80cm above the floor
EUT Turn Table Step Size	45°
Receiver Configurations	Average and peak detectors
	RBW :120 kHz
	Step Size: 30kHz (30-1000MHz)
	Sweep Time : 100 ms (FFT)

For Measurements below 1 GHz, the EUT was positioned as shown in the setup photograph:



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4.3.2.2 Final Test

The placement of EUT and cables were the same as for preliminary testing. The six highest emissions relative to the limit were measured unless such emissions were more than 20 dB below the limit. If less than six emissions are within 20 dB of the limit, then the noise level of the receiver is measured at frequencies where emissions are expected. Multiples of all oscillator and microprocessor frequencies were also checked. For the measurements in the frequency range 30 MHz to 1 GHz for each measured frequency the peak emission was maximized by manipulating the receiving antenna from 1 to 4 meters above the ground plane and placing it at the position that produced the maximum signal strength reading. The turntable was then rotated through 360° while observing the peak signal and placing the EUT at the position that produced maximum radiation. For the measurements in the frequency ranges (90-110kHz, 490kHz-1GHz) quasi-peak detector is used, while average and peak detectors are used in other ranges.

Final testing was performed on an SVSWR compliant test site.

The final average electric field value (E_{final}) is calculated in the final measurement table using the following equation:

$$E_{final} = \text{RawRec} + \text{Corr.}$$

While

$$\text{Corr.} = \text{Trd. Corr.} + \text{Sig Path} + \text{Preamp}$$

4.3.3 Test Setup

EUT	A003855706-001
Test Condition	Normal conditions
Companion device	-
Operation mode	1
Further parameters	-
Test engineer	Matthias Kräutlein

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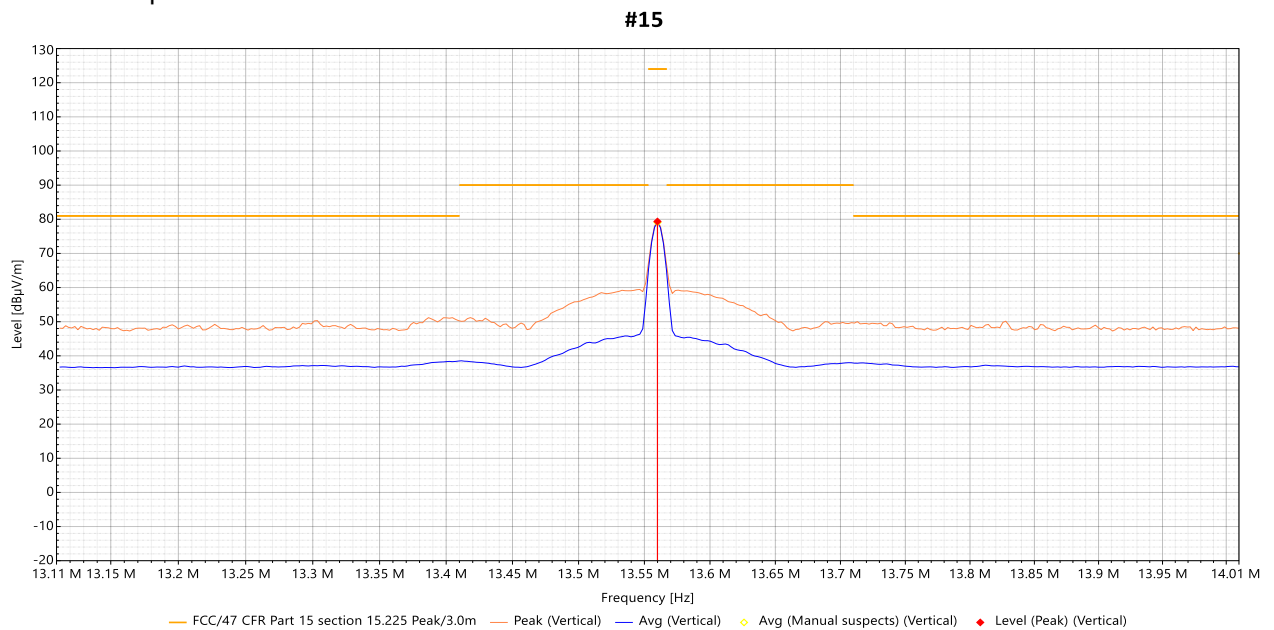
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4.3.4 Test results

4.3.4.1 Fundamental Field Strength within the band 13.110-14.010 MHz

- Perpendicular Polarization



Frequency (Hz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pos	Azimuth (°)	Height (m)	Correction (dB)	RBW (Hz)	M. time (s)	Comments
13.56 M	79.4	124.0	-44.6	V	264.0	1.50	19.8	9 k	1.0	Pass

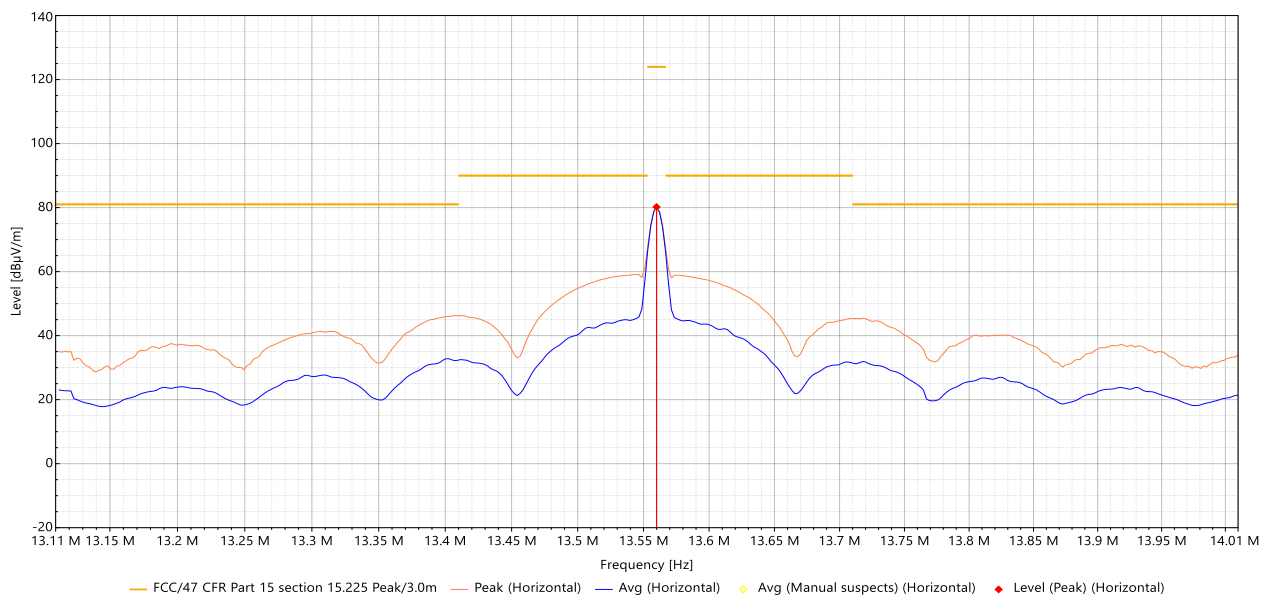
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- Parallel Polarization

#14



Frequency (Hz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pos	Azimuth (°)	Height (m)	Correction (dB)	RBW (Hz)	M. time (s)	Comments
13.56 M	80.2	124.0	-43.8	H	10.9	1.50	19.8	9 k	1.0	Pass

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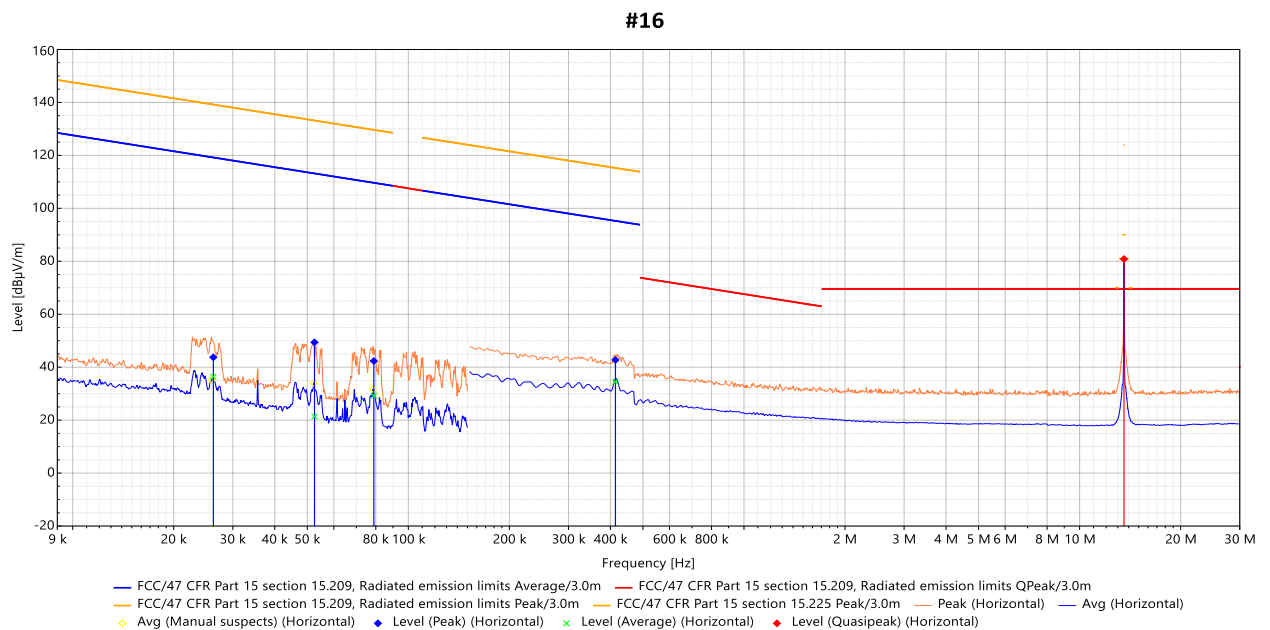
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4.3.4.2 Radiated Spurious Emission outside of the 13.110-14.010 MHz band

– 9kHz to 30 MHz

- Perpendicular Polarization



Peak

Frequency (Hz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pos	Azimuth (°)	Height (m)	Correction (dB)	RBW (Hz)	M. time (s)	Comments
26.251 k	43.7	139.2	-95.5	H	118.7	1.00	20.0	200	1.0	Pass
78.944 k	42.3	129.6	-87.3	H	52.4	1.00	19.8	200	1.0	Pass
52.544 k	49.4	133.2	-83.8	H	70.8	1.00	19.8	200	1.0	Pass
414.096 k	42.7	115.3	-72.5	H	46.5	1.00	19.7	9 k	1.0	Pass

Average

Frequency (Hz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pos	Azimuth (°)	Height (m)	Correction (dB)	RBW (Hz)	M. time (s)	Comments
52.544 k	21.4	113.2	-91.8	H	70.8	1.00	19.8	200	1.0	Pass
26.251 k	36.4	119.2	-82.8	H	118.7	1.00	20.0	200	1.0	Pass
78.944 k	29.2	109.6	-80.4	H	52.4	1.00	19.8	200	1.0	Pass
414.096 k	34.5	95.3	-60.8	H	46.5	1.00	19.7	9 k	1.0	Pass

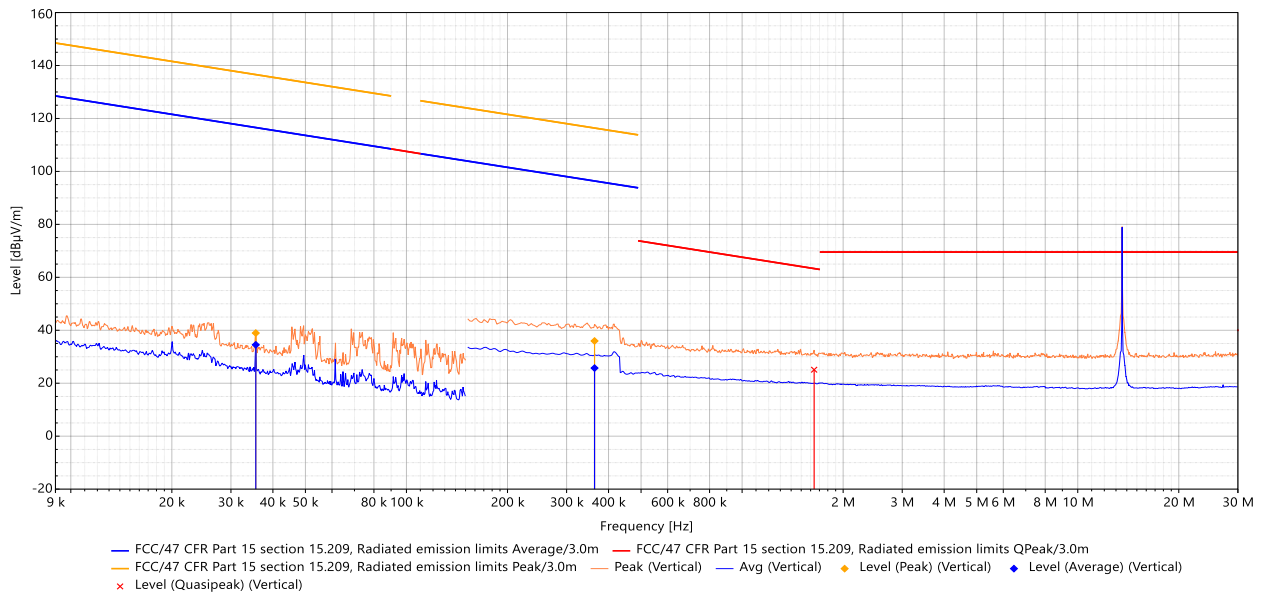
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- Parallel Polarization

#9



Peak

Frequency (Hz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pos	Azimuth (°)	Height (m)	Correction (dB)	RBW (Hz)	M. time (s)	Comments
35.576 k	38.9	136.6	-97.6	V	135.0	1.50	19.8	200	1.0	Pass
363.429 k	36.0	116.4	-80.4	V	90.0	1.50	19.7	9 k	1.0	Pass

Average

Frequency (Hz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pos	Azimuth (°)	Height (m)	Correction (dB)	RBW (Hz)	M. time (s)	Comments
35.576 k	34.5	116.6	-82.1	V	135.0	1.50	19.8	200	1.0	Pass
363.429 k	25.7	96.4	-70.7	V	90.0	1.50	19.7	9 k	1.0	Pass

QuasiPeak

Frequency (Hz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pos	Azimuth (°)	Height (m)	Correction (dB)	RBW (Hz)	M. time (s)	Comments
1.639 M	25.1	63.3	-38.2	V	44.9	1.50	19.5	9 k	1.0	Pass

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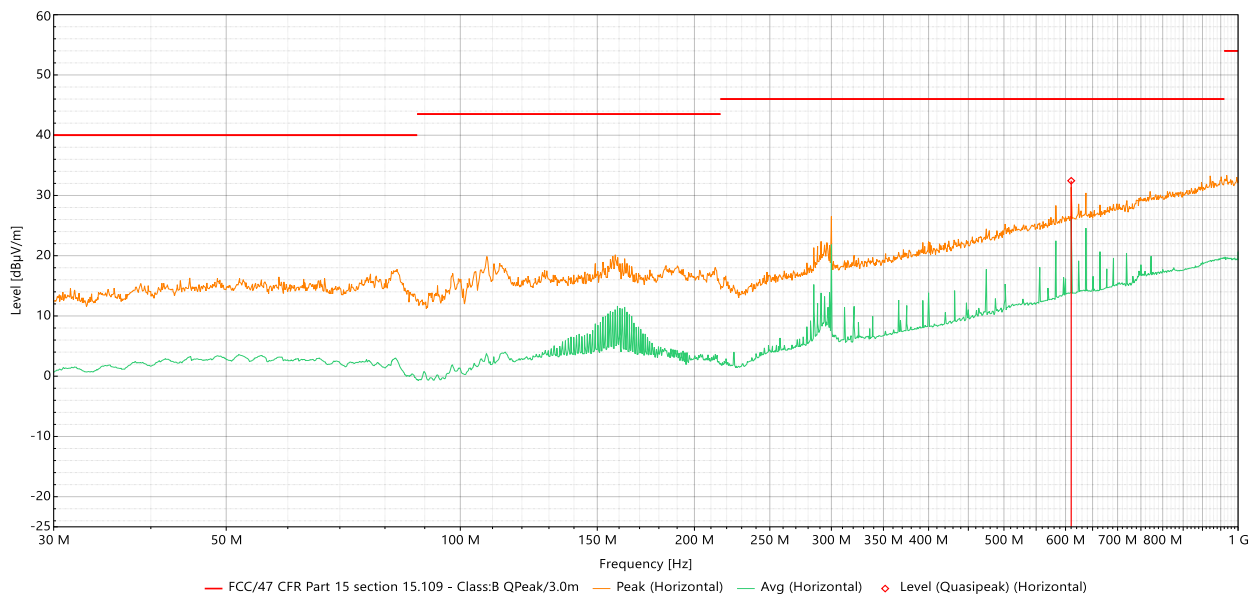
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– 30 MHz – 1 GHz

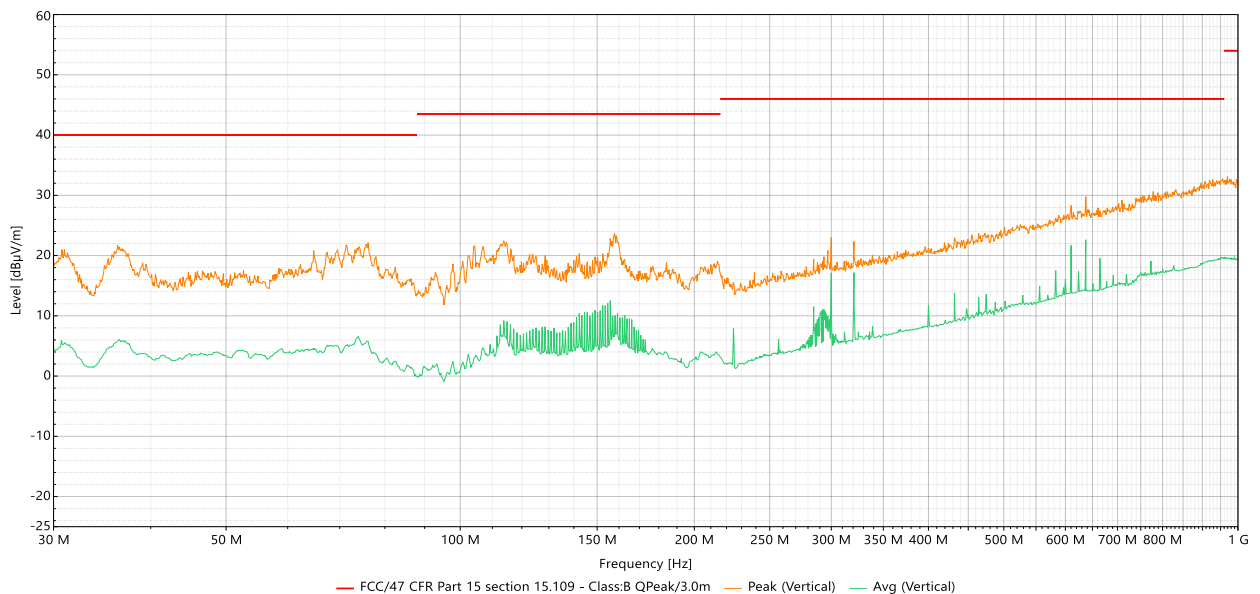
- Horizontal Polarization

#13



- Vertical Polarization

#13



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QuasiPeak

Frequency (Hz)	SR #	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pos	Azimuth (°)	Height (m)	Correction (dB)	RBW (Hz)	M. time (s)	Comments
610.199 M	1	32.4	46.0	-13.6	H	7.8	1.37	23.8	120 k	5.0	Pass

Final test result

Pass

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4.4 AC Power Conducted Emission

4.4.1 Requirements / Limits

AC power-line conducted emission measurements shall be made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz, to determine the line-to-ground radio-noise voltage that is conducted from all of the EUT current-carrying power input terminals that are directly (or indirectly via separate transformers or power supplies) connected to a public power network.

FCC Part 15, Subpart C, §15.207 (a)

[...] for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

FCC Part 15, Subpart C, §15.207, Conducted Emission Limits

Frequency [MHz]	Conducted Limit [dB μ V]	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

*Decreases with logarithm of the frequency

FCC Part 15, Subpart C, §15.207 (c)

[...] Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

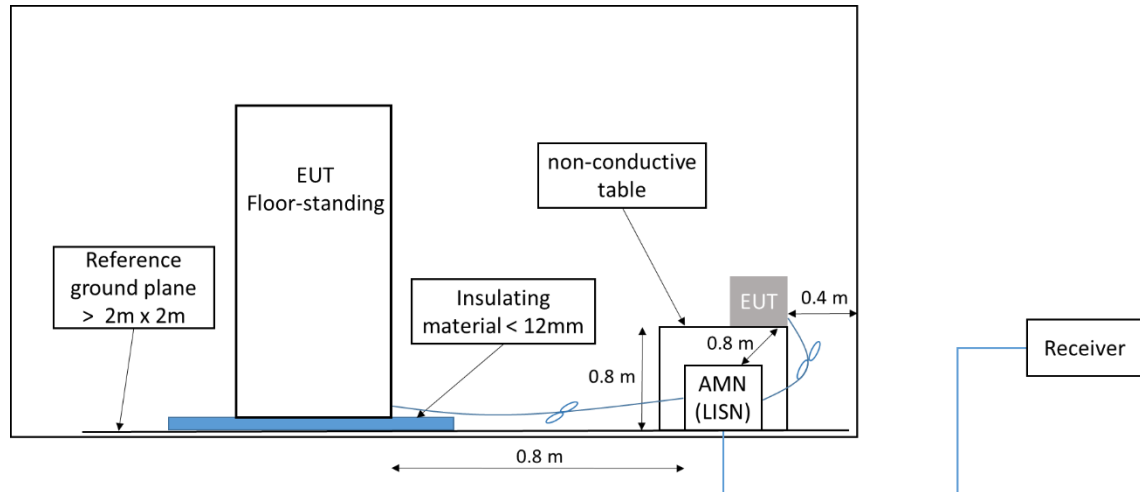
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4.4.2 Test Method

The test setup was made according to ANSI C63.10:2013 clauses 6.2.2 & 6.2.3 as shown in the photograph



The EUT with a permanent antenna operating below 30 MHz shall be tested two times according to KDB174176 D01 Line Conducted FAQ v01r01. In the first measurement the AC power-line conducted emission is tested with the antenna connected to determine compliance with limits outside the transmitter's fundamental emission. In the second measurement the antenna shall be removed and the RF output should be terminated with a suitable dummy load but instead the intentional radiator at 13.56 MHz is turned off to determine compliance in the fundamental frequency band.

4.4.3 Test Setup

EUT	A003855706-001
Test Condition	Normal conditions
Companion device	-
Operation mode	1
Further parameters	-
Test engineer	Matthias Kräutlein

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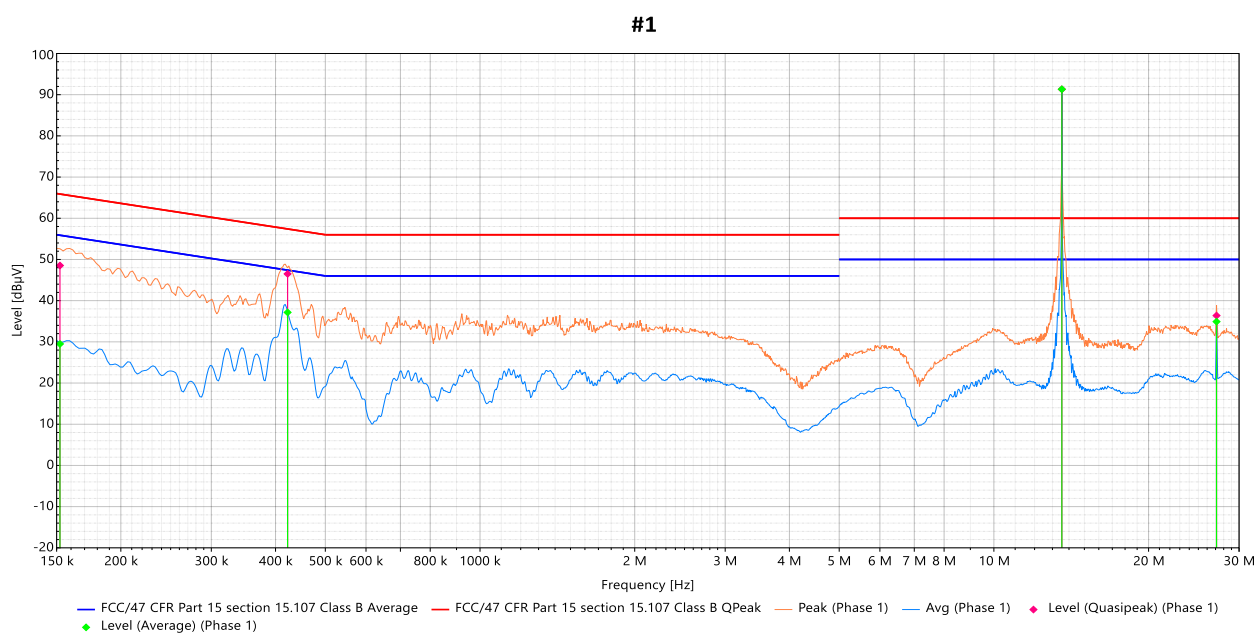
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4.4.4 Test results

4.4.4.1 AC conducted emission outside the transmitter's fundamental emission

120V 60 Hz

– Line: Phase 1



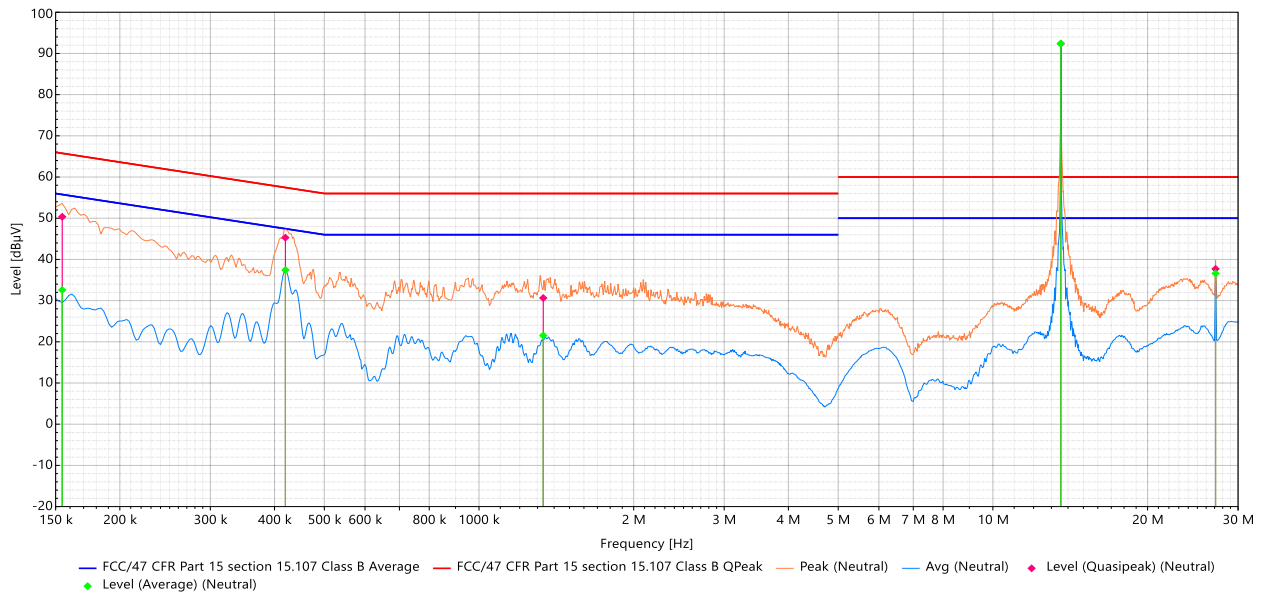
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– Line: Neutral

#1



Note: Emissions at 13.56 MHz are emissions inside the fundamental frequency band

QuasiPeak

Frequency (Hz)	Level (dBµV)	Limit (dBµV)	Margin (dB)	Pos	Correction (dB)	RBW (Hz)	M. time (s)	Comments
1.334 M	30.6	56.0	-25.4	Neutral	10.0	9 k	1.0	Pass
27.119 M	36.4	60.0	-23.6	Phase 1	10.2	9 k	1.0	Pass
27.121 M	37.7	60.0	-22.3	Neutral	10.4	9 k	1.0	Pass
152.25 k	48.5	65.9	-17.3	Phase 1	10.0	9 k	1.0	Pass
154.5 k	50.3	65.8	-15.4	Neutral	10.0	9 k	1.0	Pass
420 k	45.3	57.4	-12.2	Neutral	10.0	9 k	1.0	Pass
422.25 k	46.5	57.4	-10.9	Phase 1	10.0	9 k	1.0	Pass
13.56 M	91.3	TX		Phase 1	10.3	9 k	1.0	TX
13.56 M	92.4			Neutral	10.5	9 k	1.0	TX

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Average

Frequency (Hz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Correction (dB)	RBW (Hz)	M. time (s)	Comments
152.25 k	29.5	55.9	-26.4	Phase 1	10.0	9 k	1.0	Pass
1.334 M	21.5	46.0	-24.5	Neutral	10.0	9 k	1.0	Pass
154.5 k	32.6	55.8	-23.2	Neutral	10.0	9 k	1.0	Pass
27.119 M	34.9	50.0	-15.1	Phase 1	10.2	9 k	1.0	Pass
27.121 M	36.6	50.0	-13.4	Neutral	10.4	9 k	1.0	Pass
422.25 k	37.1	47.4	-10.3	Phase 1	10.0	9 k	1.0	Pass
420 k	37.4	47.4	-10.0	Neutral	10.0	9 k	1.0	Pass
13.56 M	91.3	TX		Phase 1	10.3	9 k	1.0	TX
13.56 M	92.4			Neutral	10.5	9 k	1.0	TX

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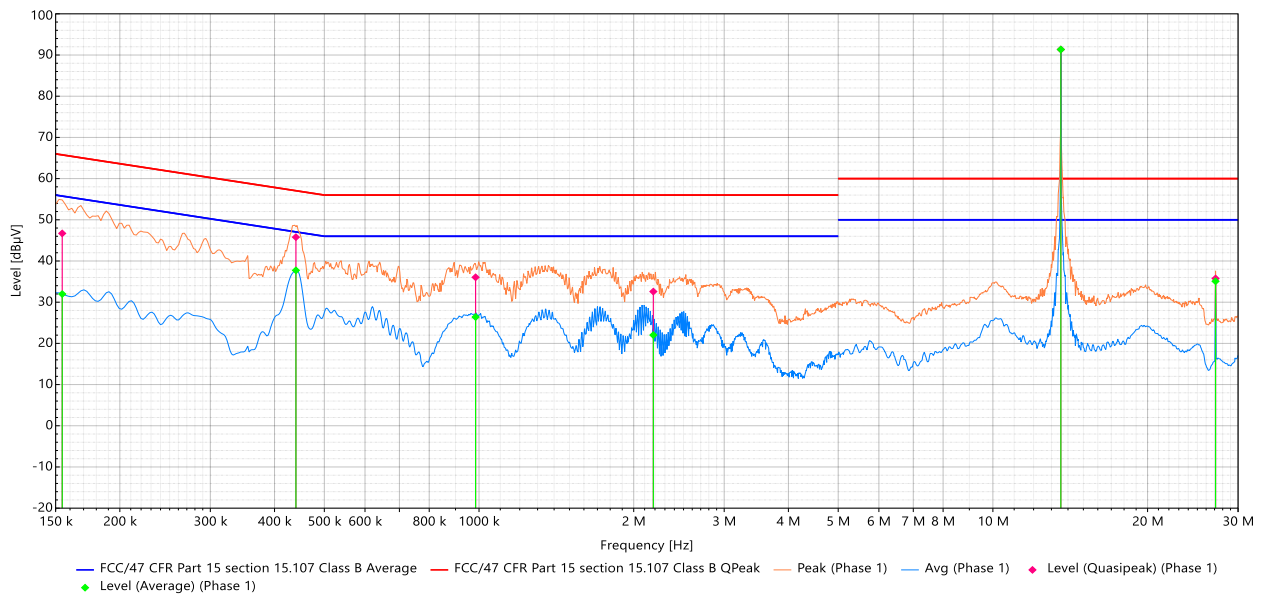
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240V 60Hz

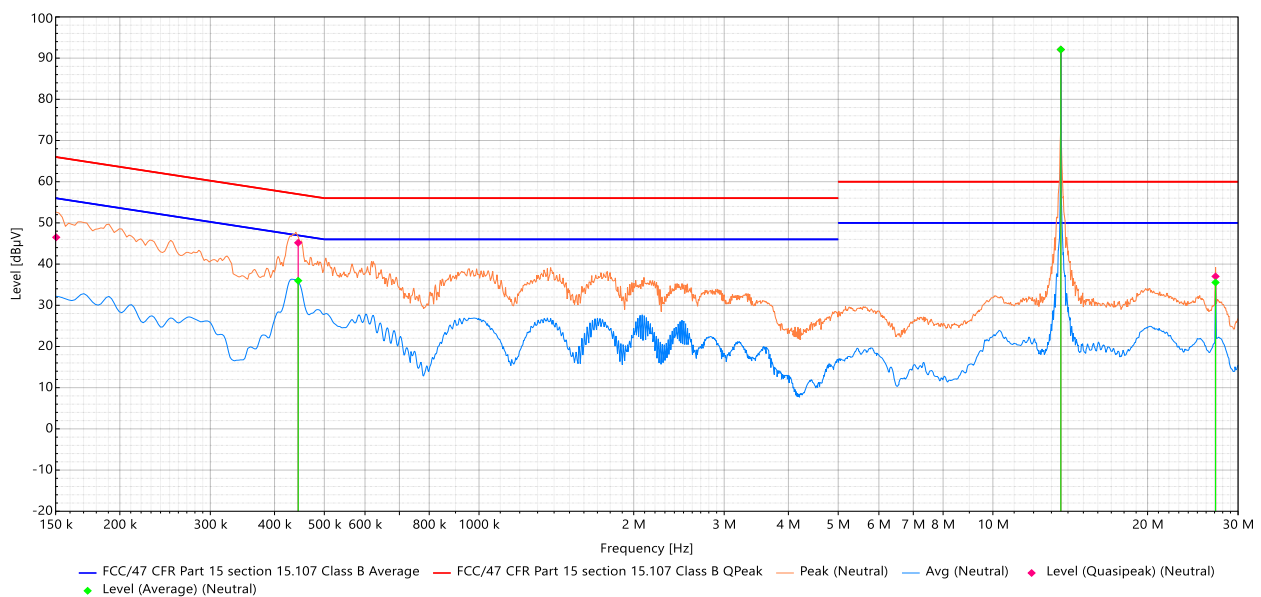
Line: Phase 1

#3



Line: Neutral

#3



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QuasiPeak

Frequency (Hz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Correction (dB)	RBW (Hz)	M. time (s)	Comments
27.121 M	35.8	60.0	-24.2	Phase 1	10.2	9 k	1.0	Pass
2.184 M	32.6	56.0	-23.4	Phase 1	10.0	9 k	1.0	Pass
27.121 M	37.0	60.0	-23.0	Neutral	10.4	9 k	1.0	Pass
984.75 k	36.0	56.0	-20.0	Phase 1	10.0	9 k	1.0	Pass
150 k	46.5	66.0	-19.5	Neutral	10.0	9 k	1.0	Pass
154.5 k	46.7	65.8	-19.1	Phase 1	10.0	9 k	1.0	Pass
444.75 k	45.2	57.0	-11.8	Neutral	10.0	9 k	1.0	Pass
440.25 k	45.8	57.1	-11.3	Phase 1	10.0	9 k	1.0	Pass
13.56 M	91.3	TX		Phase 1	10.3	9 k	1.0	TX
13.56 M	92.1			Neutral	10.5	9 k	1.0	TX

Average

Frequency (Hz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Correction (dB)	RBW (Hz)	M. time (s)	Comments
2.184 M	22.0	46.0	-24.0	Phase 1	10.0	9 k	1.0	Pass
154.5 k	32.0	55.8	-23.8	Phase 1	10.0	9 k	1.0	Pass
984.75 k	26.4	46.0	-19.6	Phase 1	10.0	9 k	1.0	Pass
27.121 M	35.1	50.0	-14.9	Phase 1	10.2	9 k	1.0	Pass
27.121 M	35.5	50.0	-14.5	Neutral	10.4	9 k	1.0	Pass
444.75 k	36.0	47.0	-11.0	Neutral	10.0	9 k	1.0	Pass
440.25 k	37.7	47.1	-9.3	Phase 1	10.0	9 k	1.0	Pass
13.56 M	91.3	TX		Phase 1	10.3	9 k	1.0	TX
13.56 M	92.1			Neutral	10.5	9 k	1.0	TX

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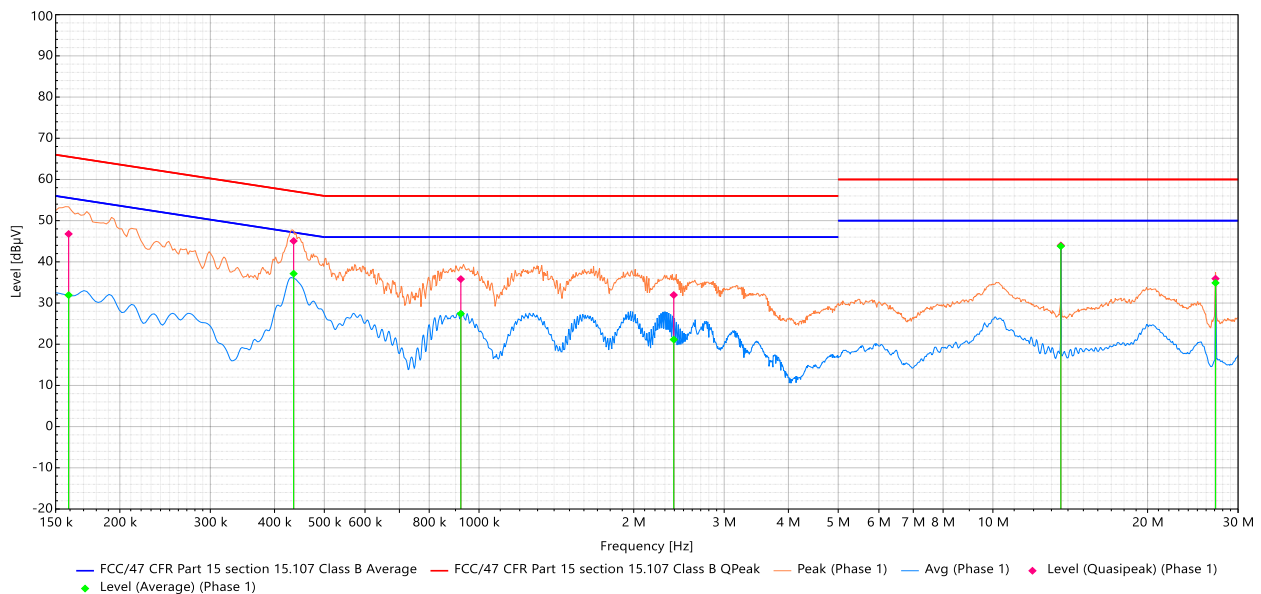
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4.4.4.2 AC conducted emission in the fundamental frequency band

120V 60Hz

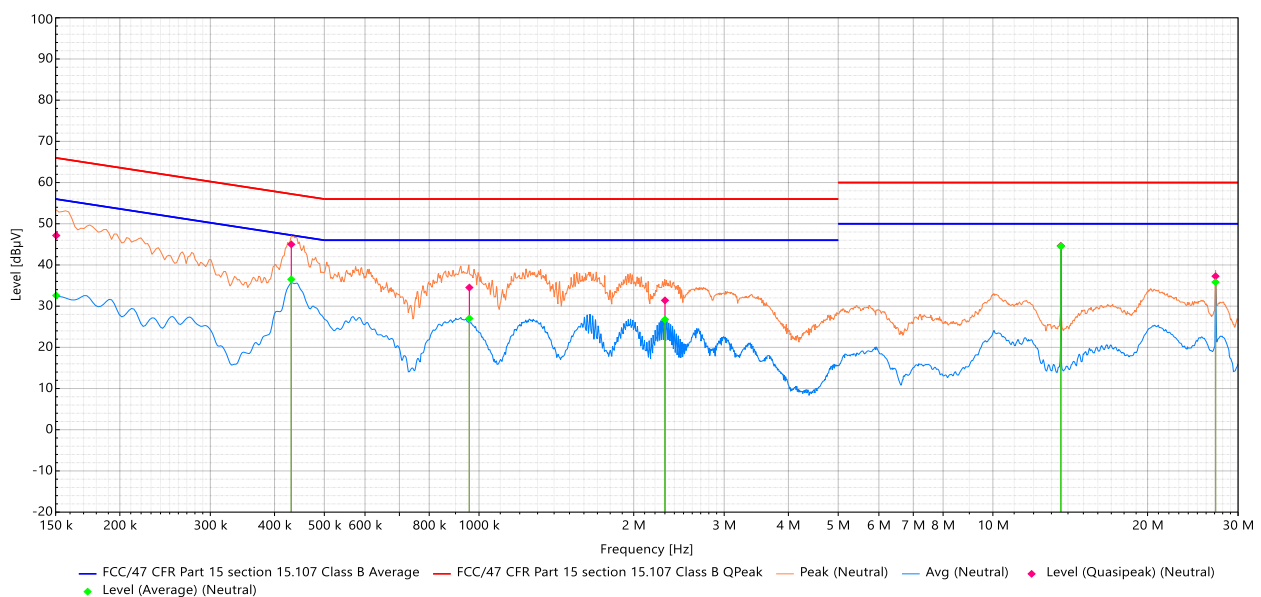
— Line: Phase 1

#20



— Line: Neutral

#20



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QuasiPeak

Frequency (Hz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Correction (dB)	RBW (Hz)	M. time (s)	Comments
1.172 M	31.3	56.0	-24.7	Phase 1	10.0	9 k	1.0	Pass
1.329 M	31.8	56.0	-24.2	Neutral	10.0	9 k	1.0	Pass
27.119 M	36.8	60.0	-23.2	Phase 1	10.2	9 k	1.0	Pass
27.121 M	37.4	60.0	-22.6	Neutral	10.4	9 k	1.0	Pass
152.25 k	49.3	65.9	-16.6	Neutral	10.0	9 k	1.0	Pass
154.5 k	49.5	65.8	-16.3	Phase 1	10.0	9 k	1.0	Pass
13.56 M	43.9	60.0	-16.1	Phase 1	10.3	9 k	1.0	Pass
13.56 M	44.6	60.0	-15.4	Neutral	10.5	9 k	1.0	Pass
420 k	46.1	57.4	-11.3	Neutral	10.0	9 k	1.0	Pass
417.75 k	46.7	57.5	-10.8	Phase 1	10.0	9 k	1.0	Pass

Average

Frequency (Hz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Correction (dB)	RBW (Hz)	M. time (s)	Comments
152.25 k	31.5	55.9	-24.4	Neutral	10.0	9 k	1.0	Pass
1.172 M	21.8	46.0	-24.2	Phase 1	10.0	9 k	1.0	Pass
154.5 k	31.7	55.8	-24.0	Phase 1	10.0	9 k	1.0	Pass
1.329 M	22.5	46.0	-23.5	Neutral	10.0	9 k	1.0	Pass
27.119 M	35.1	50.0	-14.9	Phase 1	10.2	9 k	1.0	Pass
27.121 M	35.8	50.0	-14.2	Neutral	10.4	9 k	1.0	Pass
420 k	37.8	47.4	-9.6	Neutral	10.0	9 k	1.0	Pass
417.75 k	38.2	47.5	-9.3	Phase 1	10.0	9 k	1.0	Pass
13.56 M	43.8	50.0	-6.2	Phase 1	10.3	9 k	1.0	Pass
13.56 M	44.5	50.0	-5.5	Neutral	10.5	9 k	1.0	Pass

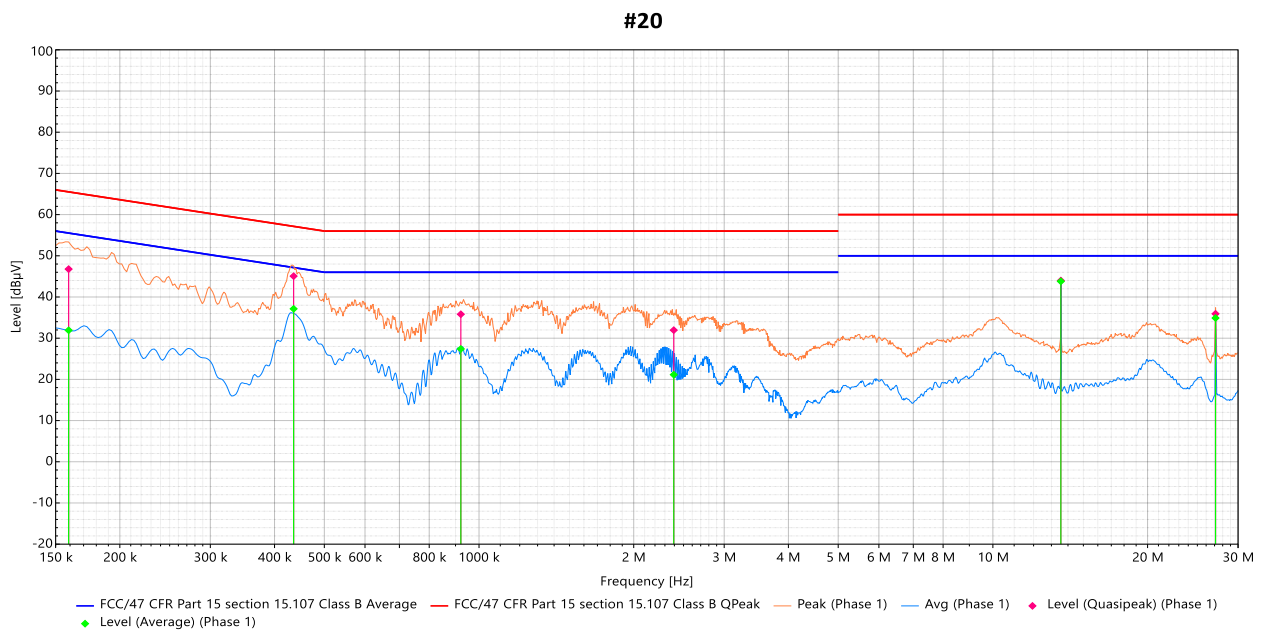
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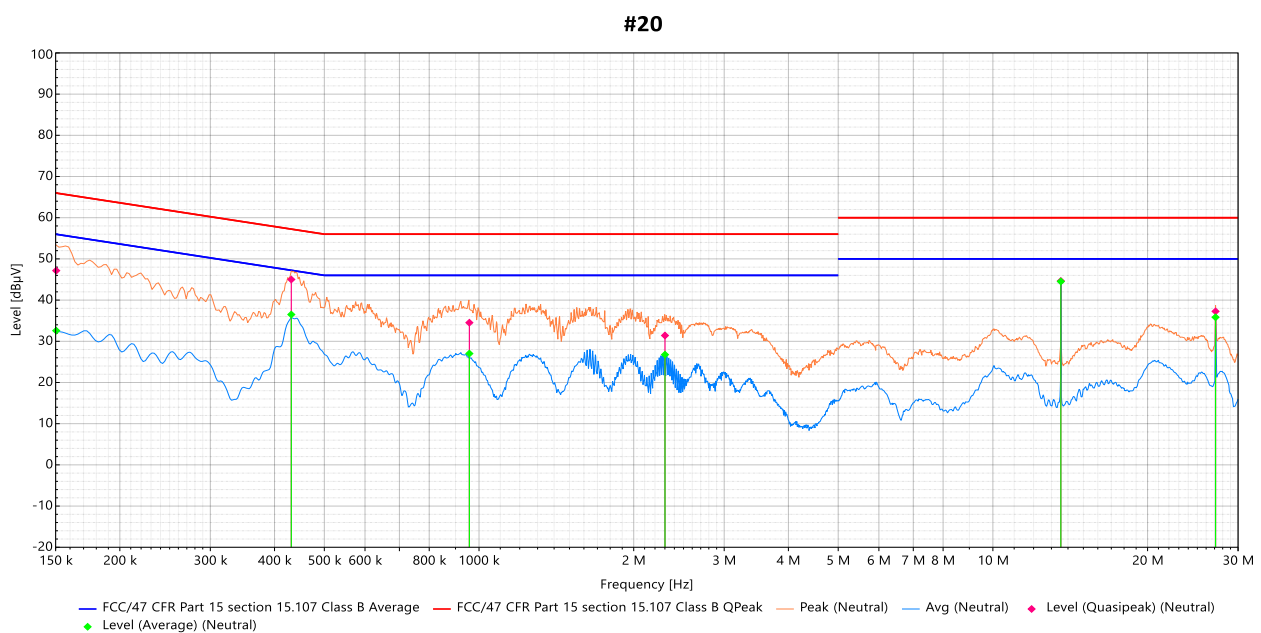
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240V 60 Hz

— Line: Phase 1



— Line: Neutral



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QuasiPeak

Frequency (Hz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Correction (dB)	RBW (Hz)	M. time (s)	Comments
2.301 M	31.4	56.0	-24.6	Neutral	10.1	9 k	1.0	Pass
27.119 M	35.9	60.0	-24.1	Phase 1	10.2	9 k	1.0	Pass
2.393 M	32.0	56.0	-24.0	Phase 1	10.0	9 k	1.0	Pass
27.121 M	37.3	60.0	-22.7	Neutral	10.4	9 k	1.0	Pass
957.75 k	34.5	56.0	-21.5	Neutral	10.0	9 k	1.0	Pass
921.75 k	35.8	56.0	-20.2	Phase 1	10.0	9 k	1.0	Pass
150 k	47.2	66.0	-18.8	Neutral	10.0	9 k	1.0	Pass
159 k	46.8	65.5	-18.7	Phase 1	10.0	9 k	1.0	Pass
13.56 M	44.0	60.0	-16.0	Phase 1	10.3	9 k	1.0	Pass
13.56 M	44.6	60.0	-15.4	Neutral	10.5	9 k	1.0	Pass
431.25 k	45.0	57.2	-12.2	Neutral	10.0	9 k	1.0	Pass
435.75 k	45.1	57.1	-12.1	Phase 1	10.0	9 k	1.0	Pass

Average

Frequency (Hz)	Level (dBμV)	Limit (dBμV)	Margin (dB)	Pos	Correction (dB)	RBW (Hz)	M. time (s)	Comments
2.393 M	21.1	46.0	-24.9	Phase 1	10.0	9 k	1.0	Pass
159 k	31.9	55.5	-23.6	Phase 1	10.0	9 k	1.0	Pass
150 k	32.6	56.0	-23.4	Neutral	10.0	9 k	1.0	Pass
2.301 M	26.7	46.0	-19.3	Neutral	10.1	9 k	1.0	Pass
957.75 k	27.0	46.0	-19.0	Neutral	10.0	9 k	1.0	Pass
921.75 k	27.4	46.0	-18.6	Phase 1	10.0	9 k	1.0	Pass
27.119 M	34.9	50.0	-15.1	Phase 1	10.2	9 k	1.0	Pass
27.121 M	35.8	50.0	-14.2	Neutral	10.4	9 k	1.0	Pass
431.25 k	36.5	47.2	-10.7	Neutral	10.0	9 k	1.0	Pass
435.75 k	37.1	47.1	-10.0	Phase 1	10.0	9 k	1.0	Pass
13.56 M	43.8	50.0	-6.2	Phase 1	10.3	9 k	1.0	Pass
13.56 M	44.5	50.0	-5.5	Neutral	10.5	9 k	1.0	Pass

Final test result

Pass

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4.5 Frequency Stability

4.5.1 Requirements / Limits

Carrier frequency stability is the amount of drift the center of the transmit signal is from the nominal center frequency.

FCC Part 15, Subpart C, §15.225 (e)

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

4.5.2 Test Method

A test setup according to ANSI C63.10:2013 clause 6.8 is prepared. The EUT is not prepared with a dummy load so an antenna is connected to the spectrum analyser with a coaxial cable and is placed near the EUT in the middle of an environmental temperature chamber to couple the EUT output to the spectrum analyser with a suitable signal level.

Frequency stability with respect to ambient temperature

The EUT is equipped with a new charged battery before the measurements started. The environmental temperature chamber is first set to $50\text{ }^{\circ}\text{C}$. After the temperature was stabilized the EUT is turned on and the frequency is measured four times, at start up, after 2 minutes, after 5 minutes, and after 10 minutes. Then the temperature is reduced by $10\text{ }^{\circ}\text{C}$ and the measurements are repeated again in the same way at $40\text{ }^{\circ}\text{C}$. Then again the degree is reduced by $10\text{ }^{\circ}\text{C}$ step and the frequency is measured each time until the minimum degree is reached ($-20\text{ }^{\circ}\text{C}$).

Frequency stability when varying supply voltage

The test is done at ambient room temperature ($+15\text{ }^{\circ}\text{C}$ to $+25\text{ }^{\circ}\text{C}$). New fully charged battery is installed in the EUT and the EUT is turned on. The frequency is measured four times, at start up, after 2 minutes, after 5 minutes, and after 10 minutes.

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4.5.3 Test Setup

EUT	A003855706-001
Test Condition	Frequency Stability conditions
Chamber details	☐ 3m Fully Anechoic Chamber (FAC) ☐ 10m Semi Anechoic Chamber (SAC) ☒ Shielded room
Measurement positioning	Distance: EUT height: Antenna height: ☐ 3m ☐ 1.5m ☐ 1.5m ☐ 10m ☐ 0.8m ☐ 1m to 4m – height scan ☒ N/A
Companion device	-
Operation mode	1
Further parameters	-
Test engineer	Matthias Kräutlein

4.5.4 Test results

	startup		2 Minutes		5 Minutes		10 Minutes	
Temperature	frequency (MHz)	Drift %	frequency (MHz)	Drift %	frequency (MHz)	Drift %	frequency (MHz)	Drift %
50	13.559928	-0.00053	13.559913	-0.00064	13.559902	-0.00072	13.559896	-0.00077
40	13.559914	-0.00063	13.559903	-0.00072	13.559904	-0.00071	13.559902	-0.00072
30	13.559964	-0.00027	13.559952	-0.00035	13.559938	-0.00046	13.559932	-0.00050
20	13.559986	-0.00010	13.559978	-0.00016	13.559968	-0.00024	13.559964	-0.00027
10	13.560032	0.00024	13.560022	0.00016	13.560014	0.00010	13.560006	0.00004
0	13.56002	0.00015	13.560022	0.00016	13.560024	0.00018	13.560024	0.00018
-10	13.56005	0.00037	13.56005	0.00037	13.560052	0.00038	13.560052	0.00038
-20	13.56004	0.00029	13.560044	0.00032	13.56005	0.00037	13.56005	0.00037

startup			2 Minutes		5 Minutes		10 Minutes	
Voltage min&	frequency (MHz)	Drift %	frequency (MHz)	Drift %	frequency (MHz)	Drift %	frequency (MHz)	Drift %
85	13.559978	-0.000162242	13.559968	-0.00023599	13.559952	-0.00035398	13.559942	-0.00042773
276	13.559976	-0.000176991	13.559962	-0.00028024	13.559954	-0.00033923	13.559944	-0.00041298

Final test result

Pass

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Fotodokumentation
Photo documentation

5 Test Setup Photo

There are no photos of the EUT in this report acc. to the confidentiality letter.

For EUT- and test setup photos please see the Photo Documentation to this report Number.

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Zusatzdokumentation
Additional documentation

6 Application form

The following information was provided by the customer and form the basis for the execution of the tests and the assessment of conformity. The given information can affect the results of both.

application form was provided.

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Liste der verwendeten Prüfmittel
List of used test equipment

7 Equipment List

7.1 Hardware

Prüfmittel <i>Test equipment</i>		Prüfmittel-Nr. / <i>ID-Nr.</i> <i>Equipment No.</i> <i>/ ID-No.</i>	Letzte Kalibrierung <i>Last calibration</i>	Nächste Kalibrierung <i>Next calibration</i>
Spectrum Analyzer: FSV-30	Rohde & Schwarz	9000268	10.08.2023	10.08.2025
Antenna HFH 2	Rohde & Schwarz	2728893	05.08.2024	05.08.2027
Semi-Anechoic Chamber 30-1000 MHz	Siemens	2729645	15.06.2024	15.06.2025
Antenna VULB 9168	Schwarzbeck	2728787	02.11.2022	02.11.2025
Receiver ESU 26	Rohde & Schwarz	2728898	13.03.2024	13.03.2025
Receiver ESU 8	Rohde & Schwarz	2728148	10.12.2024	10.12.2025
Line Impedance Stabilization Network ESH2-Z5	Rohde & Schwarz	2731908	16.07.2026	16.07.2027
Limiter ESH3-Z2	Rohde & Schwarz	2730114	05.06.2024	05.06.2025
Climatic chamber PL-3 KPH	Espec	2731999	11.02.2025	11.02.2028

7.2 Software

Test Software	Developer	Version
BAT-EMC	NEXIO	2022.0.19.0

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Änderungsverzeichnis
Change history

8 Change History

Revision Number	List of revisions
DE2416NH 002	Antenna Requirement for Professional installation included
DE2416NH 001	Initial Release
Note: Latest revision report will replace all previous reports.	

Ende des Prüfberichts
End of Test Report