

Test report nr. R25233401

Federal Communication Commission (FCC)

Innovation, Science and Economic Development Canada (ISED)

Customer	ASSA ABLOY Entrance Systems AB Lodjursgatan, 10 – SE-261 44 Landskrona – Sweden	
(#) FCC ID of certified module	XPYNINAW13	
(#) ISED number of certified module	8595A-NINAW13	
(#) Description of item tested	Automatic sectional garage door operator, with Bluetooth and Wi-Fi connectivity and battery back-up	
(#) Trademark	Kwikset	
(#) Model and/or type reference	KF1000B	
(#) Manufacturer	ASSA ABLOY Entrance Systems AB Lodjursgatan, 10 – SE-261 44 Landskrona – Sweden	
(#) Rating(s)	120 V ~ 60 Hz single-phase + earth	
Test method requested, standard(s)	KDB 996369 D04 Module Integration Guide v01 FCC Rules & Regulations, Title 47:2024 Part 15 paragraph(s): 209 and 247 (b) (3) RSS-247 Issue 4 July 2025 RSS-GEN Issue 5: April 2018, Amendment 1 March 2019, Amendment 2 February 2021 Tests details at page 12	
Tested by (name / position & signature)	M. Segalla Technician	
Approved by (name / position & signature)	F. Marenda Laboratory manager	
Date of issue	26.11.2025	
General disclaimer	The test results presented in this report relate only to the item tested. This report shall not be reproduced, except in full, without the written approval of DEKRA Testing and Certification S.r.l.	
Report template No	KDB_996369_DEKRA	

(#) information provided by the customer

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In some cases, the software in the tested sample is in a version dedicated exclusively to the test, and therefore does not represent the software installed in the final version of the product.

Reference standards

Standard(s)	Description
KDB 996369 D04 Module Integration Guide v01	Modular transmitter integration guide – Guidance for host product manufacturers
FCC Rules and Regulation Title 47 part 15:2024	Radio frequency devices
RSS-247 Issue 4 July 2025	RSS-247 – Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands
RSS-Gen Issue 5: April 2018, Amendment 1 March 2019, Amendment 2 February 2021	General Requirements for Compliance of Radio Apparatus
KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices operating under section 15.247 of the FCC rules
ANSI C63.10:2020 + COR1:2023	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Usage of samples

Sample(s) used for testing chosen by the customer; DEKRA Testing and Certification S.r.l. cannot be considered responsible for the selection of the sample(s).

Internal identification	Serial number/Customer Id	Date of reception	Notes
P250345	--	21.03.2025	--

Test sample description

Test power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	☒	AC: 120 V, 60 Hz	☒	☐	☐	☒	☒
	☐	AC:	☐	☐	☐	☐	☐
	☐	DC:					
	☐	DC:					
Frequency band(s)	2400 – 2483,5 MHz						
Nominal frequencies	2412 MHz 2437 MHz 2462 MHz						
Software release	2.0.0 (1LCA60N) 1.0.0 (1RCB50N) 0.4.5 (1RCB201B)						
Type of equipment	☒	Transmitter unit					
	☒	Receiver unit					
Type of station	☐	Portable station					
	☒	Mobile station					
Mounting position	☐	Table top equipment					
	☐	Wall/Ceiling mounted equipment					
	☐	Floor standing equipment					
	☐	Hand-held equipment					
	☒	Other, for example rack mounted, body worn, etc.					
Components list	Attachment 2						
Operating modes	N.	Operating mode of test item					
	1	EUT in continuous transmission at maximum power, test only on 802.11b mode, data rate 1, CH1 (2412 MHz) as worst case.					

Photos of the test item





Testing period and place

Test Location	DEKRA Testing and Certification S.r.l.
FCC Registration Number	182474
ISED Registration Number	9055A
Date (start)	24.11.2025
Date (finish)	25.11.2025

Document history

Report number	Date	Description
R25233401	26.11.2025	First release

List of attachments

Name	Description
Attachment 1	Measurement uncertainty, judgement of compliance and quality manual references
Attachment 2	Components list

Environmental conditions

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment.

The climatic conditions during the tests were within the following limits:

Temperature	Humidity	Atmospheric pressure
15 °C – 35 °C	30 % - 60 %	800 hPa – 1060 hPa

If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report.

Environmental conditions have been monitored with the following instruments:

Id. number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
CMC S302	Testo	175H1	40370182 610	Data Logger	May 2025	May 2026

Remarks and comments

Throughout this report a comma is used as the decimal separator.

Tests reported in this test report marked by wording: "Test not accredited by ACCREDIA" are not part of the ACCREDIA accreditation of this laboratory.

Deviations from test specification

None.

Testing verdicts

N/A (Not Applicable)	Test case does not apply to the test object
P (Pass)	Test object meets the requirement
F (Fail)	Test object does not meet the requirement
N/E (Not Executed)	Test object was not evaluated for the requirement

Verdict summary

KDB 996369 D04 Module Integration Guide v01 FCC Rules & Regulations, Title 47:2024 Part 15 paragraph(s): 209 and 247 RSS-247 Issue 4 July 2025 RSS-Gen Issue 5: April 2018, Amendment 1 March 2019, Amendment 2 February 2021			
Clause	Requirement – Test case	Basic standard	Verdict
FCC Part 15.209 RSS-Gen Issue 5 RSS-247 Issue 4 cl. 6.6	Emissions in restricted frequency bands and in unrestricted frequency bands	ANSI C63.10	P
FCC Part 15.209 and 15.247 (b) (3) RSS-247 Issue 4 cl. 6.3.2(a)	Fundamental emission output power	ANSI C63.10	Not required (+)

(+) It should not be necessary to re-test the transmitter output power of any modular transmitter which has been certified based on conducted power

Test results

Emissions in restricted frequency bands and in unrestricted frequency bands

Tested by	M. Segalla
Test date	24.11.2025
Test location (stand)	Semi-anechoic chamber (CMC A070)
Basic standard(s)	ANSI C63.10 cl. 6.3, 6.4, 6.5 and 6.6
Product standard(s)	KDB 996369 D04 Module Integration Guide v01 FCC Rules and Regulation; Titles 47 Part 15.209 RSS-GEN Issue 5 RSS-247 Issue 4 cl. 6.6
Test set-up description	☒ Table top equipment set-up (80 cm above the reference ground plane) ☐ Floor standing equipment set-up (insulating material up to 12 mm thick) ☐ False floor installation equipment set-up (insulating material up to 34 cm above the reference ground plane)
Supplementary test set-up description	--
Test method applied	OATS or SAC with measurement distance [m]: 10 m for frequencies below 1 GHz 3 m for frequencies above 1 GHz
Supplementary information	--

Acceptance limits

Acceptance limits for emissions in restricted frequency bands ($f < 1000$ MHz)		
Frequency range (MHz)	Test distance (m)	Limits [dB(μ V/m)]
0,009 to 0,490	300	$20\log(2400/F(\text{kHz}))$
0,490 to 1,705	30	$20\log(24000/F(\text{kHz}))$
1,705 to 30	30	$20\log(30)$
30 to 88	3	$20\log(100)^{**}$
88 to 216	3	$20\log(150)^{**}$
216 to 960	3	$20\log(200)^{**}$
Above 960	3	$20\log(500)$

****:** except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54 – 72 MHz, 76 – 88 MHz, 174 – 216 MHz or 470 – 806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

Perimeter protection systems may operate in the 54 – 72 MHz and 76 – 88 MHz bands under the provisions of this section. The use of such perimeter protection systems is limited to industrial, business and commercial applications.

Remarks: the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9 – 90 kHz and 110 – 490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector. The Verdict have been extrapolated to the specified distance using an extrapolation factor.

Acceptance limits for emissions in restricted frequency bands ($f \geq 1000$ MHz)			
Frequency (MHz)	Test distance (m)	AV limits [dB(μ V/m)]	Peak limits [dB(μ V/m)]
> 1000	3	54	74

The FCC restricted frequency bands are listed in the following table:

MHz	MHz	MHz	GHz
0,090 – 0,110	16,42 – 16,423	399,9 – 410	4,5 – 5,15
0,495 – 0,505	16,69475 – 16,69525	608 – 614	5,35 – 5,46
2,1735 – 2,1905	16,80425 – 16,80475	960 – 1240	7,25 – 7,75
4,125 – 4,128	25,5 – 25,67	1300 – 1427	8,025 – 8,5
4,17725 – 4,17775	37,5 – 38,25	1435 – 1626,5	9,0 – 9,2
4,20725 – 4,20775	73 – 74,6	1645,5 – 1646,5	9,3 – 9,5
6,215 – 6,218	74,8 – 75,2	1660 – 1710	10,6 – 12,7
6,26775 – 6,26825	108 – 121,94	1718,8 – 1722,2	13,25 – 13,4
6,31175 – 6,31225	123 – 138	2200 – 2300	14,47 – 14,5
8,291 – 8,294	149,9 – 150,05	2310 – 2390	15,35 – 16,2
8,362 – 8,366	156,52475 – 156,52525	2483,5 – 2500	17,7 – 21,4
8,37625 – 8,38675	156,7 – 156,9	2690 – 2900	22,01 – 23,12
8,41425 – 8,41475	162,0125 – 167,17	3260 – 3267	23,6 – 24,0
12,29 – 12,293	167,72 – 173,2	3332 – 3339	31,2 – 31,8
12,51975 – 12,52025	240 – 285	3345,8 – 3358	36,43 – 36,5
12,57675 – 12,57725	322 – 335,4	3600 – 4400	Above 38,6
13,36 – 13,41			

Acceptance limits for emissions in non-restricted frequency bands (according to ANSI C63.10 cl. 11.11.1)
The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions: a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz. b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz. c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required

ISED restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:

- The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD).
- Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.
- Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

MHz	MHz	GHz
0,090 – 0,110	149,9 – 150,05	9,0 – 9,2
0,495 – 0,505	156,52475 – 156,52525	9,3 – 9,5
2,1735 – 2,1905	156,7 – 156,9	10,6 – 12,7
3,020 – 3,026	162,0125 – 167,17	13,25 – 13,4
4,125 – 4,128	167,72 – 173,2	14,47 – 14,5
4,17725 – 4,17775	240 – 285	15,35 – 16,2
4,20725 – 4,20775	322 – 335,4	17,7 – 21,4
5,677 – 5,683	399,9 – 410	22,01 – 23,12
6,215 – 6,218	608 – 614	23,6 – 24,0
6,26775 – 6,26825	960 – 1427	31,2 – 31,8
6,31175 – 6,31225	1435 – 1626,5	36,43 – 36,5
8,291 – 8,294	1645,5 – 1646,5	Above 38,6
8,362 – 8,366	1660 – 1710	
8,37625 – 8,38675	1718,8 – 1722,2	
8,41425 – 8,41475	2200 – 2300	
12,29 – 12,293	2310 – 2390	
12,51975 – 12,52025	2483,5 – 2500	
12,57675 – 12,57725	2655 – 2900	
13,36 – 13,41	3260 – 3267	
16,42 – 16,423	3332 – 3339	
16,69475 – 16,69525	3345,8 – 3358	
16,80425 – 16,80475	3500 – 4400	
25,5 – 25,67	4500 – 5150	
37,5 – 38,25	5350 – 5460	
73 – 74,6	7250 – 7750	
74,8 – 75,2	8025 – 8500	
108 – 138		

Remarks: certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

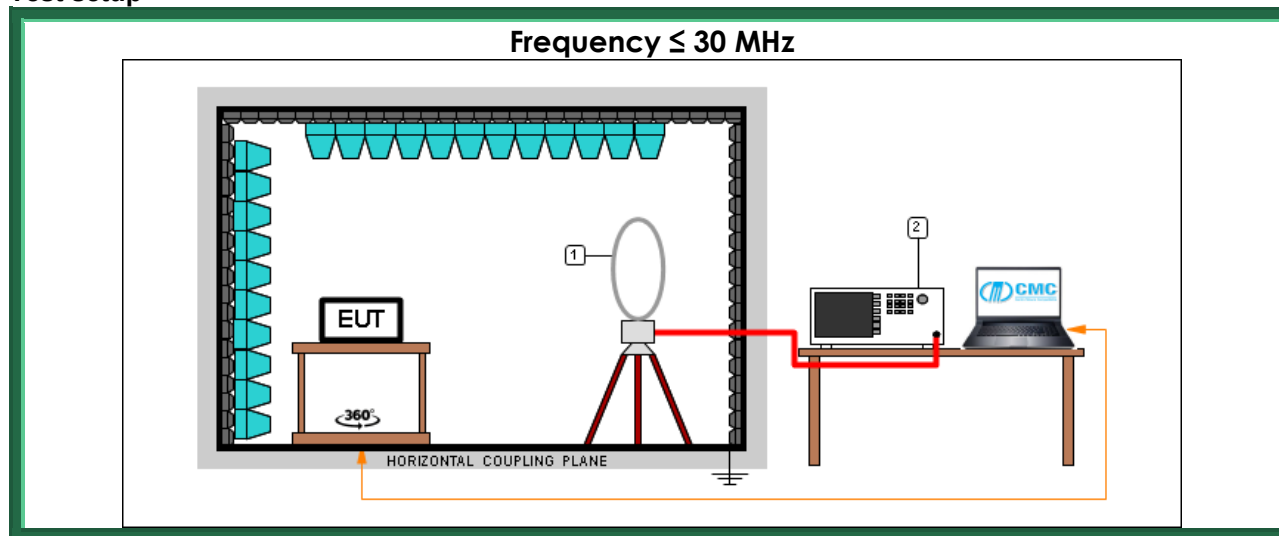
Transmitters whose wanted and unwanted emissions fall within the general field strength limits specified in RSS-Gen may operate licence-exempt in any of the frequency bands, other than the restricted frequency bands listed in RSS-Gen and the TV bands 54 – 72 MHz, 76 – 88 MHz, 174 – 216 MHz and 470 – 602 MHz, and shall be certified under RSS-210. Under no circumstances shall the level of any unwanted emissions exceed the level of the fundamental emissions.

Devices operating below 490 kHz for which all emissions are at least 40 dB below the general field strength limits listed in RSS-Gen are Category II devices and are subject to the requirements specified in RSS-310, Licence-Exempt Radio Apparatus: Category II Equipment.

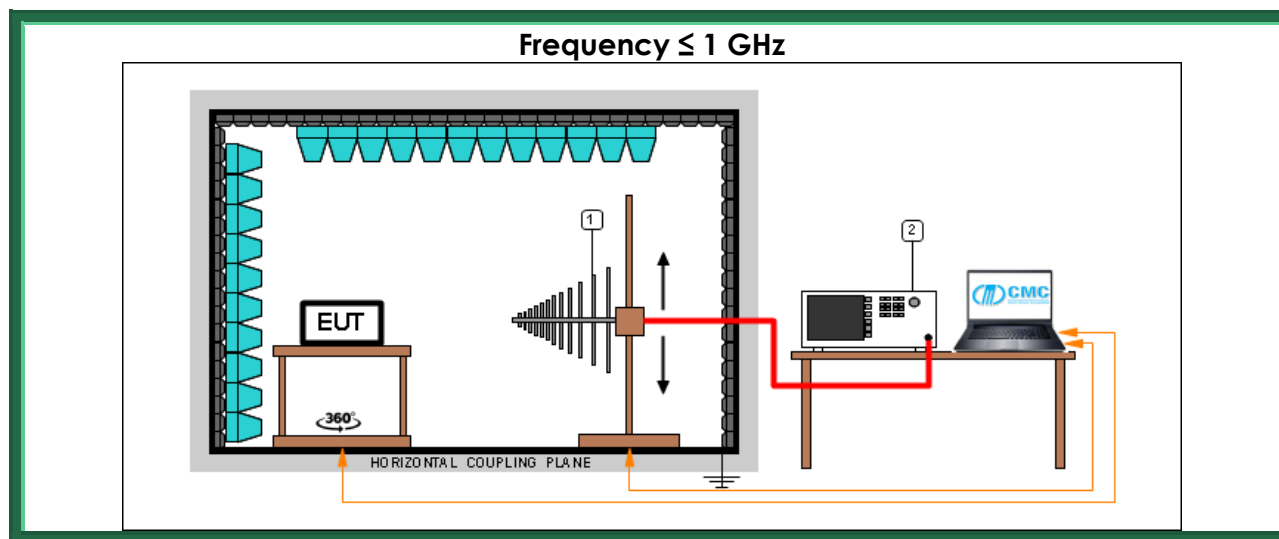
Acceptance limits for emissions in non-restricted frequency bands

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device, or hybrid system is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power – based on either an RF conducted or a radiated measurement – provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 6.3.2, the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test setup



Test setup PE004_21							
Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
2	CMC S402	Rohde & Schwarz	ESW44	103433	Emi Test Receiver	December 2024	December 2025
1	CMC S127	Schaffner	HLA6120	1191	Loop Antenna 9kHz - 30MHz	July 2024	July 2027
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

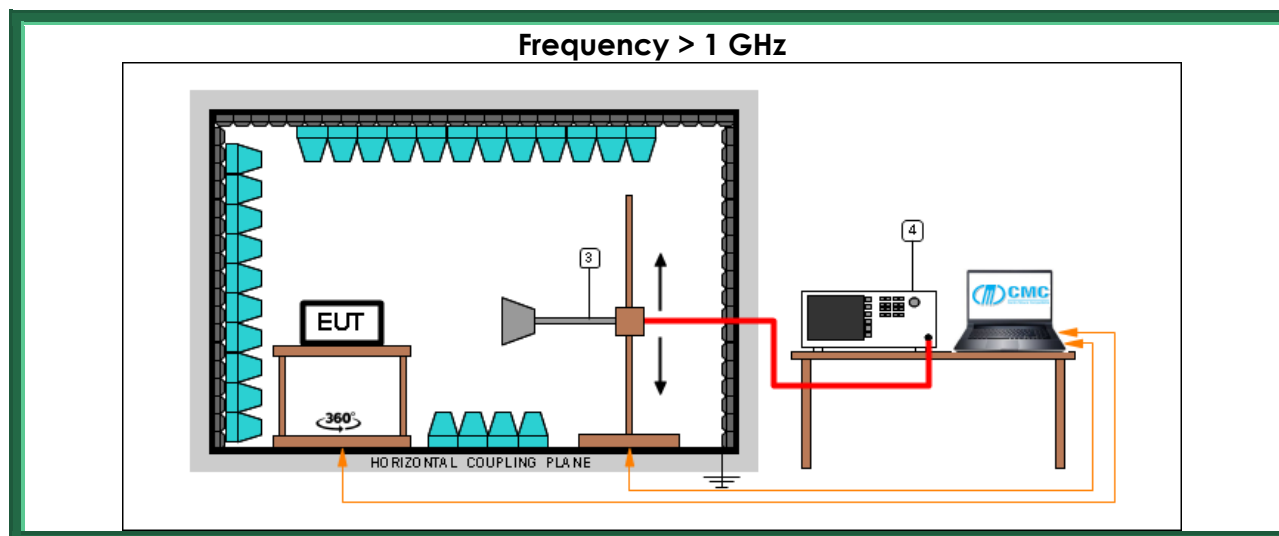


Test setup PE004_22

Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
2	CMC S402	Rohde & Schwarz	ESW44	103433	Emi Test Receiver	December 2024	December 2025
1	CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	831	Broadband Antenna	August 2025	August 2028
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

Test setup PE004_23

Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
2	CMC S402	Rohde & Schwarz	ESW44	103433	Emi Test Receiver	December 2024	December 2025
1	CMC S287	Schwarzbeck	VUSLP 9111B	9111B-203	Broadband Antenna	August 2025	August 2028
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required



Test setup PE004_24

Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
4	CMC S402	Rohde & Schwarz	ESW44	103433	Emi Test Receiver	December 2024	December 2025
3	CMC S108	Emco	3115	9811-5622	Waveguide antenna	August 2025	August 2028
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

Test setup PE004_25

Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
4	CMC S402	Rohde & Schwarz	ESW44	103433	Emi Test Receiver	December 2024	December 2025
3	CMC S290	Schwarzbeck	BBHA 9170	733	Horn Antenna	October 2021	October 2026
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

Result

Polarization	Frequency Range (MHz)	Graphs	Remarks	Verdict
V	1000 – 3000	25233401	--	P
H	1000 – 3000	25233402	--	P
H	3000 – 18000	25233403	--	P
V	3000 – 18000	25233404	--	P
Loop	0,009 – 30	25233405	--	P
V	18000 – 26000	25233406	--	P
H	18000 – 26000	25233407	--	P
V	30 – 300	25233408	--	P
H	30 – 300	25233409	--	P
H	300 – 1000	25233410	--	P
V	300 – 1000	25233411	--	P

Remarks: EUT was tested in 3 orthogonal planes, graphs are related to the highest detected levels.

Measurements at frequencies lower than 30 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $40\log(\text{test distance}/10)$ based on the measuring distance provided by the standard.

Measurements at frequencies higher than 30 MHz and lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $20\log(\text{test distance}/10)$ based on the measuring distance provided by the standard.

Peaks above the limits are due to the nominal transmitting frequencies.

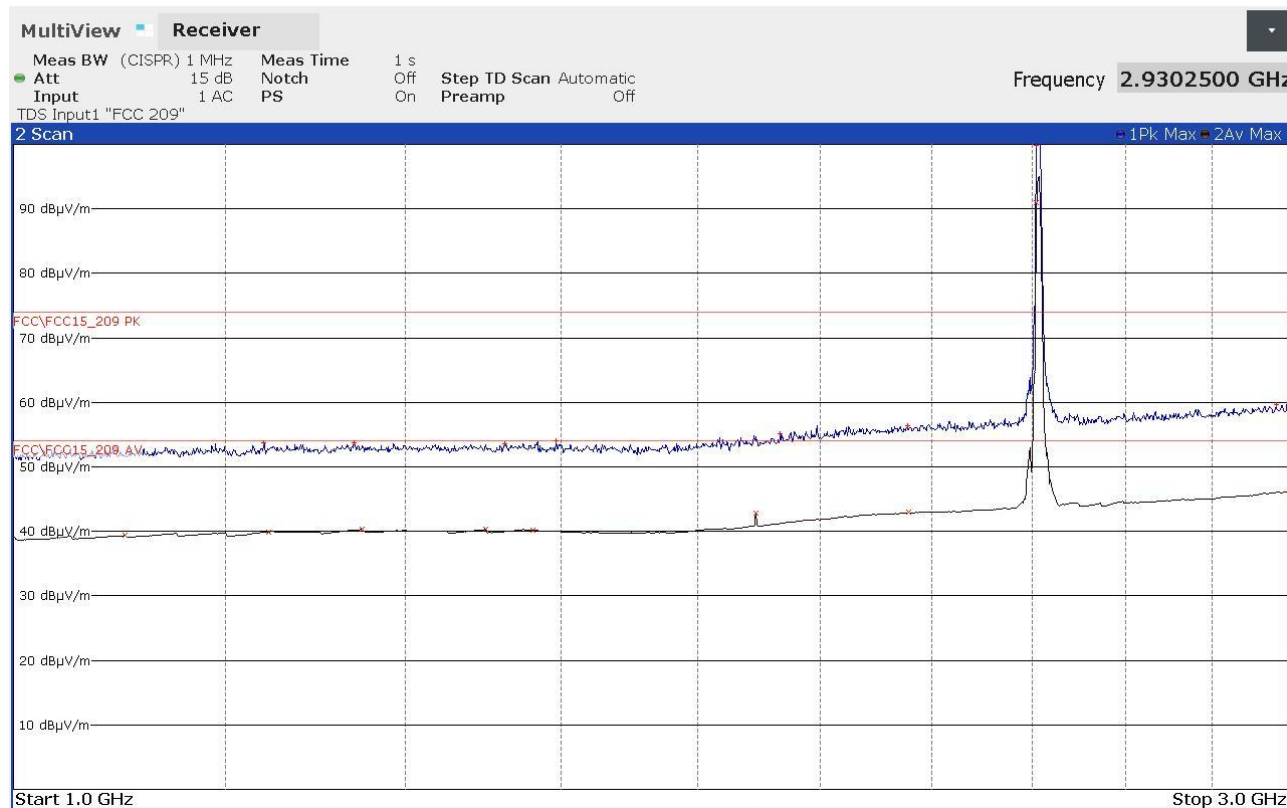
Graphs Legend

PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a +

AV: Average; AV [1s] (average at 1 second) values are marked with a X

Graphs

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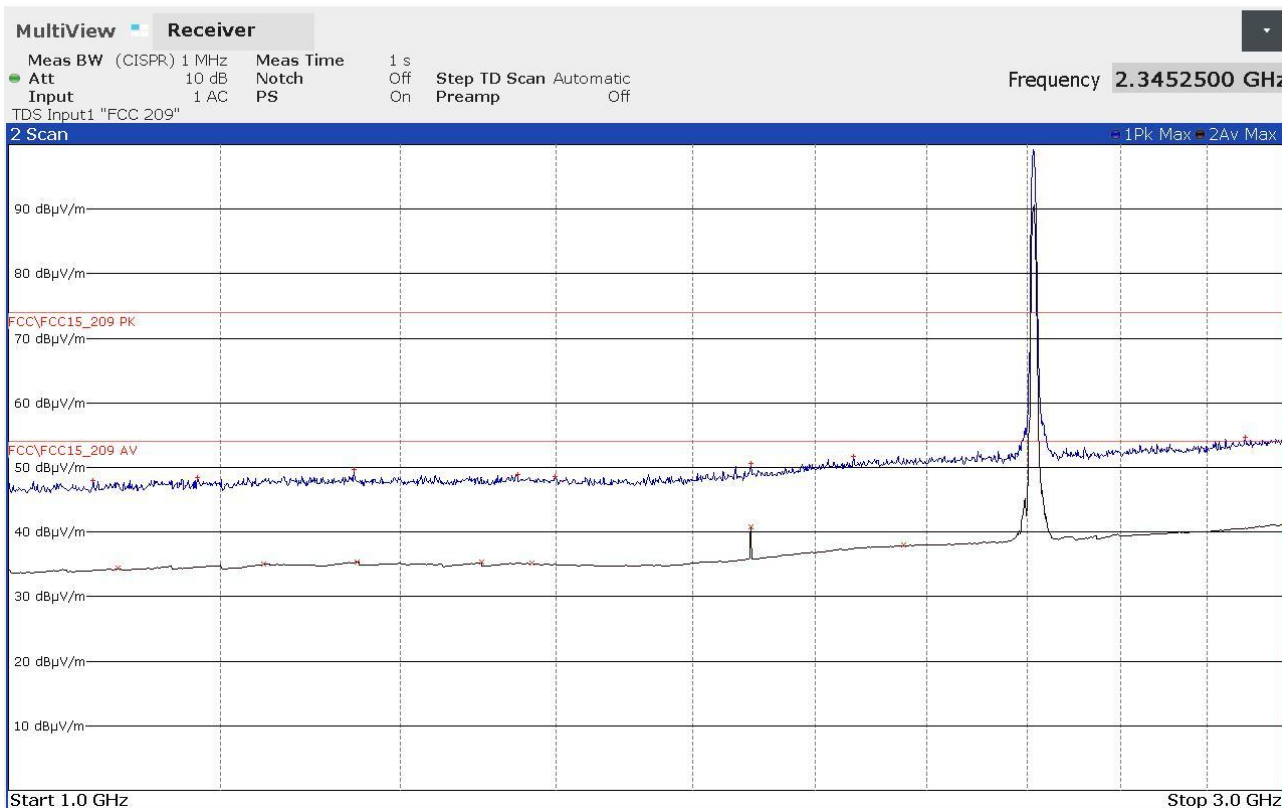


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1091500000	+53,02	-20,96	1100750000	+39,34	-14,64
1240250000	+53,76	-20,22	1245500000	+39,93	-14,05
1339750000	+53,79	-20,19	1349500000	+40,36	-13,62
1524750000	+53,66	-20,32	1500250000	+40,30	-13,68
1593500000	+53,99	-19,99	1562500000	+40,16	-13,82
1932500000	+55,17	-18,81	1891750000	+42,83	-11,15
2156000000	+56,43	-17,55	2157250000	+42,93	-11,05
2408000000	+99,77	+25,79	2408000000	+90,90	+36,92
2959000000	+59,68	-14,30	2995750000	+46,35	-7,63

25233401_2

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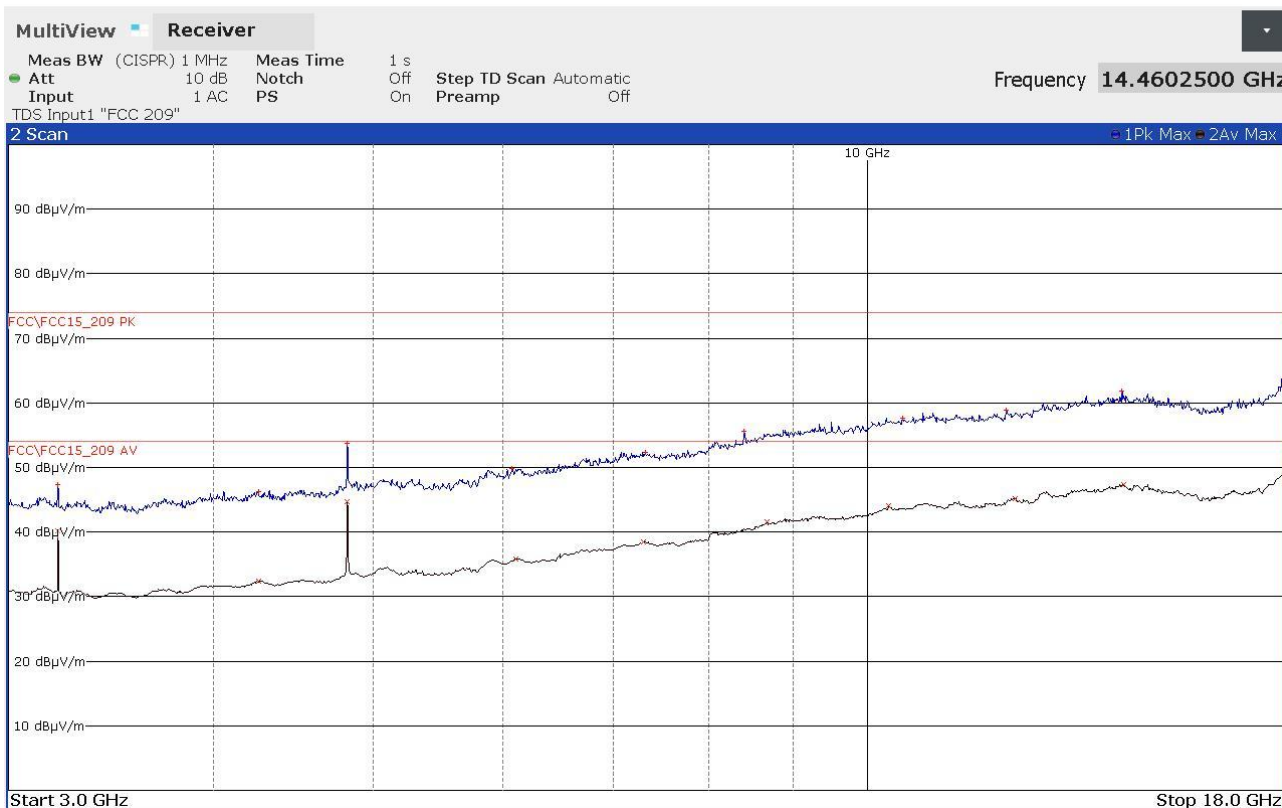


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1075500000	+47,98	-26,00	1098250000	+34,36	-19,62
1176250000	+48,50	-25,48	1245000000	+34,99	-18,99
1345750000	+49,64	-24,34	1349500000	+35,38	-18,60
1548500000	+48,94	-25,04	1501000000	+35,29	-18,69
1599000000	+48,65	-25,33	1567750000	+35,15	-18,83
1891750000	+50,57	-23,41	1891750000	+40,76	-13,22
2066500000	+51,78	-22,20	2157000000	+37,95	-16,03
2892500000	+54,65	-19,33	2995500000	+41,34	-12,64

25233402_2

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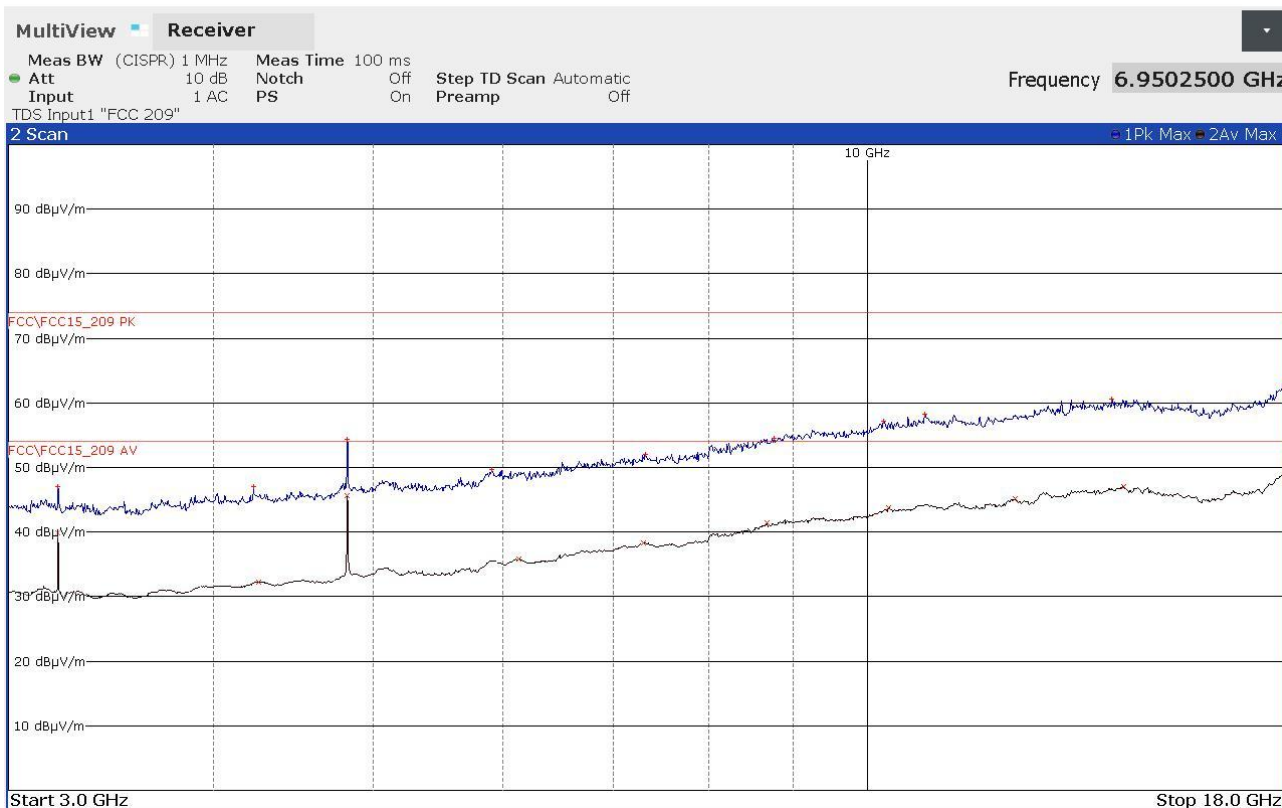


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3216000000	+47,41	-26,57	3216000000	+40,21	-13,77
4257500000	+46,25	-27,73	4260250000	+32,34	-21,64
4824000000	+53,70	-20,28	4824000000	+44,68	-9,30
6076000000	+49,89	-24,09	6110500000	+35,90	-18,08
7321250000	+52,39	-21,59	7304500000	+38,51	-15,47
8408500000	+55,53	-18,45	8680000000	+41,56	-12,42
10495250000	+57,67	-16,31	10300000000	+44,04	-9,94
12140000000	+58,92	-15,06	12300000000	+45,24	-8,74
14277250000	+61,89	-12,09	14300000000	+47,42	-6,56
17991250000	+64,00	-9,98	17960000000	+50,64	-3,34

25233403_2

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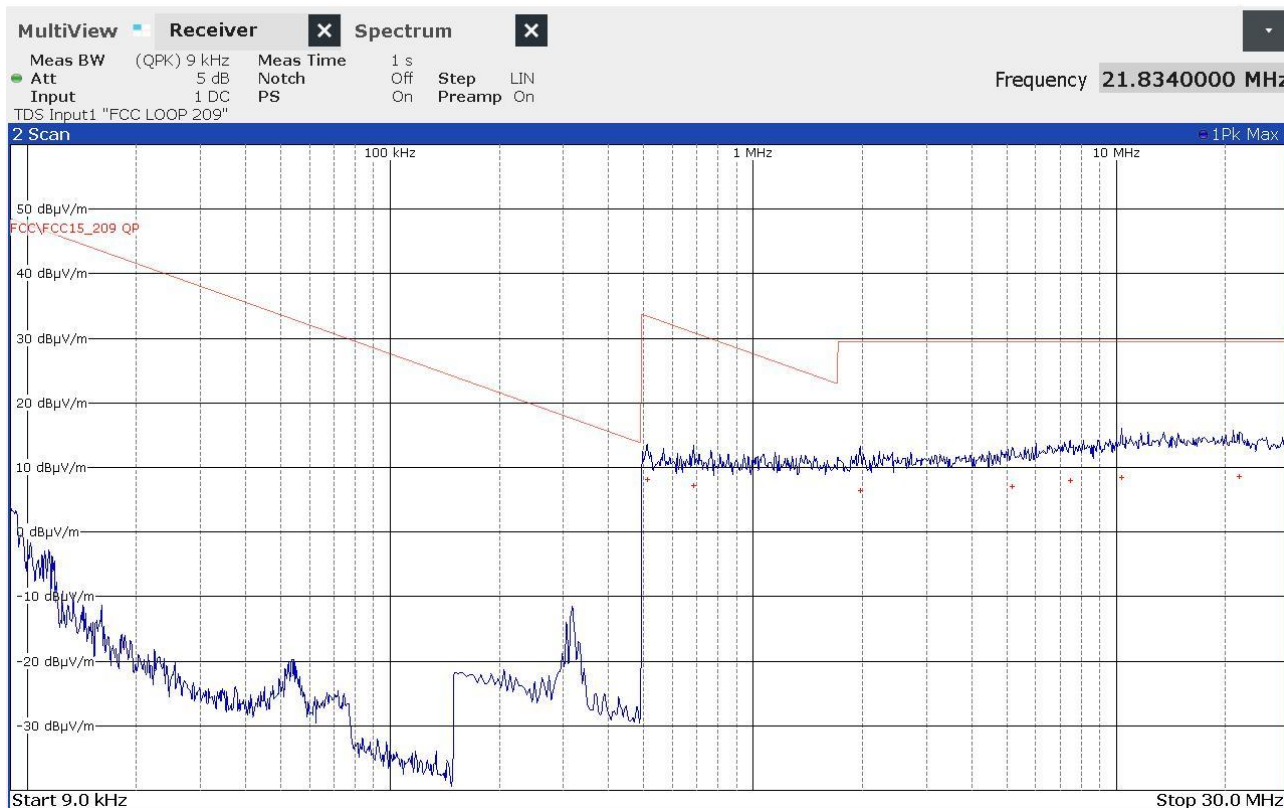


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3216000000	+47,07	-26,91	3216000000	+39,83	-14,15
4229750000	+46,97	-27,01	4258750000	+32,31	-21,67
4824000000	+54,42	-19,56	4824000000	+45,66	-8,32
5903250000	+49,65	-24,33	6134750000	+35,87	-18,11
7318000000	+52,06	-21,92	7304500000	+38,33	-15,65
8771250000	+54,48	-19,50	8680000000	+41,38	-12,60
10217500000	+57,10	-16,88	10300000000	+43,80	-10,18
10833250000	+58,28	-15,70	12300000000	+45,12	-8,86
14076250000	+60,55	-13,43	14300000000	+47,09	-6,89
17955000000	+63,89	-10,09	17960000000	+50,68	-3,30

25233404_2

Segalla 25233405



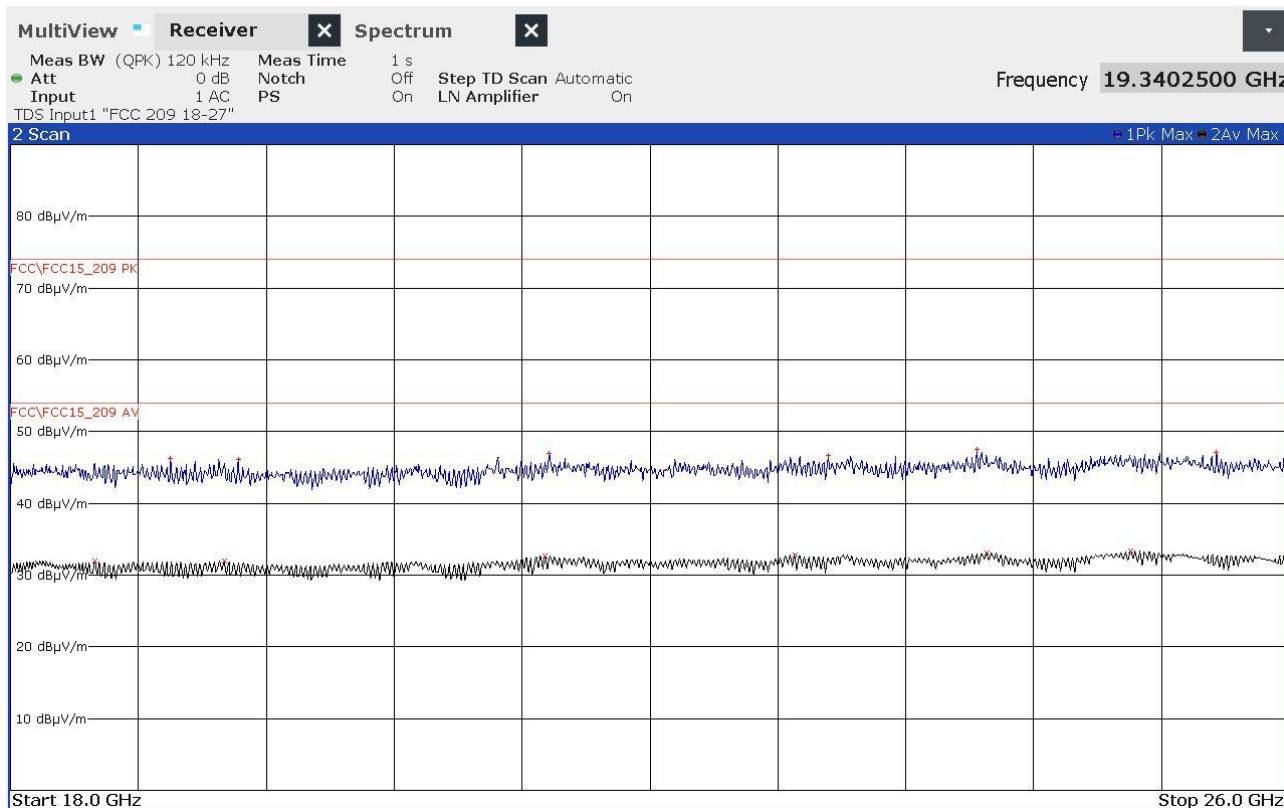
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
510000	+8,08	-25,37
686000	+7,13	-23,75
1970000	+6,34	-23,20
5178000	+7,08	-22,46
7458000	+7,99	-21,55
10362000	+8,52	-21,02
21834000	+8,54	-21,00

25233405_2

Segalla 25233406

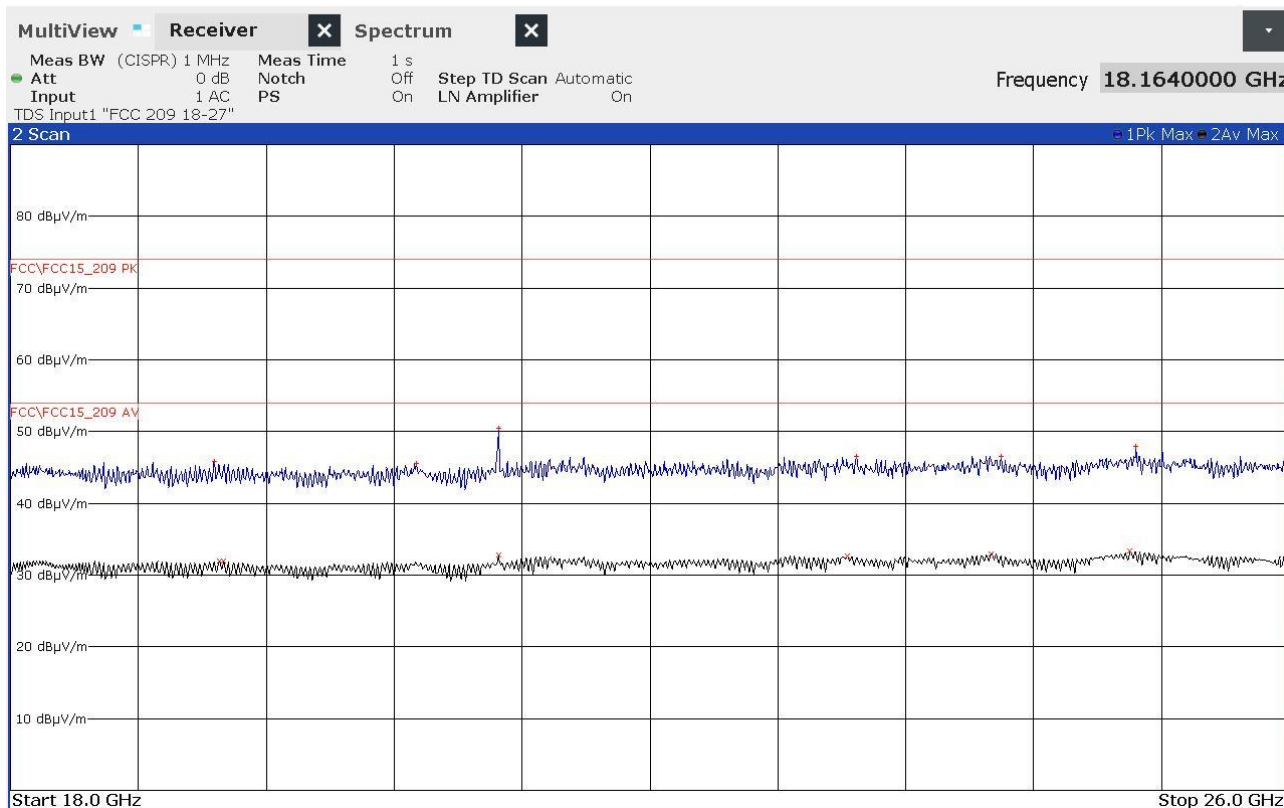


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
19000250000	+46,27	-27,71	18528250000	+32,03	-21,95
19424500000	+46,10	-27,88	19335750000	+32,00	-21,98
21369750000	+47,02	-26,96	21343250000	+32,65	-21,33
23117250000	+46,70	-27,28	22905000000	+32,80	-21,18
24043250000	+47,54	-26,44	24106500000	+33,09	-20,89
25543500000	+47,06	-26,92	25004500000	+33,37	-20,61

25233406_2

Segalla 25233407

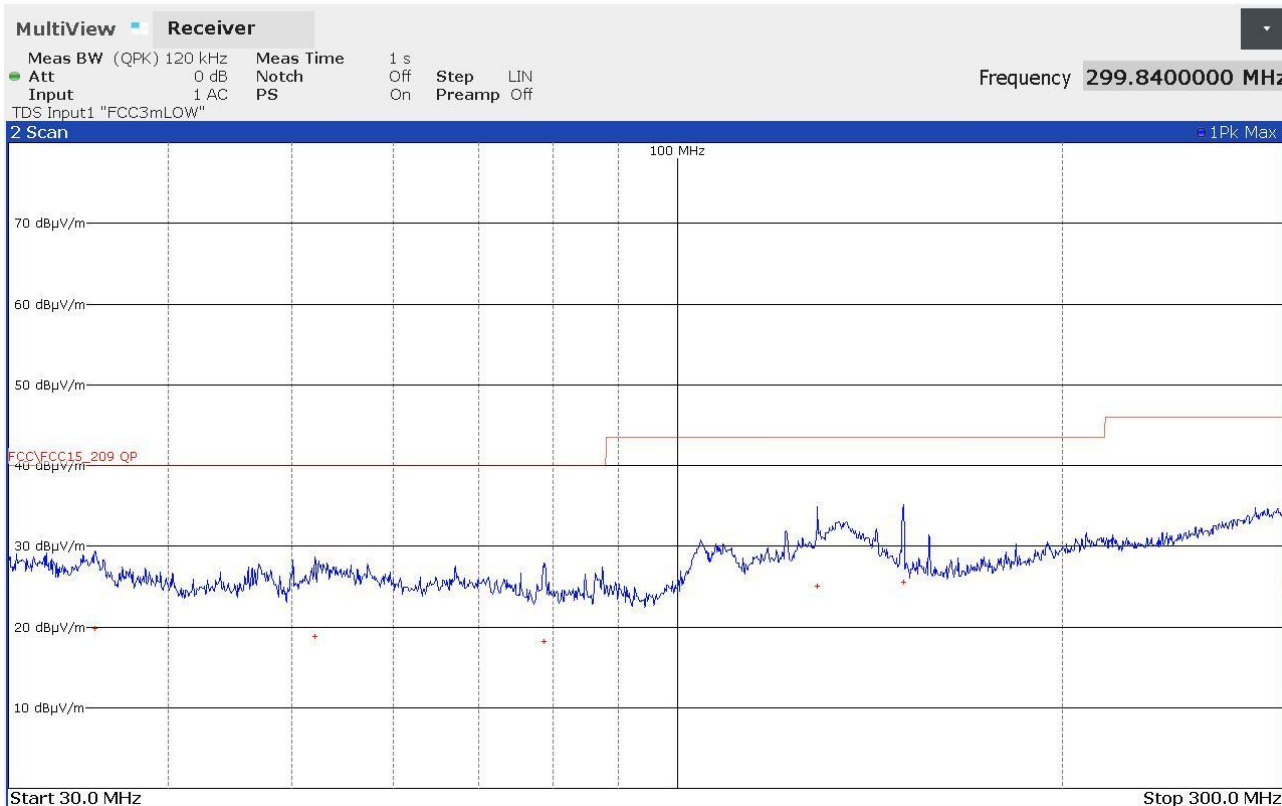


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
19276500000	+45,83	-28,15	19305000000	+32,03	-21,95
20538000000	+45,56	-28,42	19334000000	+31,99	-21,99
21054250000	+50,43	-23,55	21054250000	+32,83	-21,15
23292750000	+46,61	-27,37	23233000000	+32,69	-21,29
24195000000	+46,60	-27,38	24134250000	+32,98	-21,00
25038000000	+48,01	-25,97	25003750000	+33,33	-20,65

25233407_2

Segalla 25233408



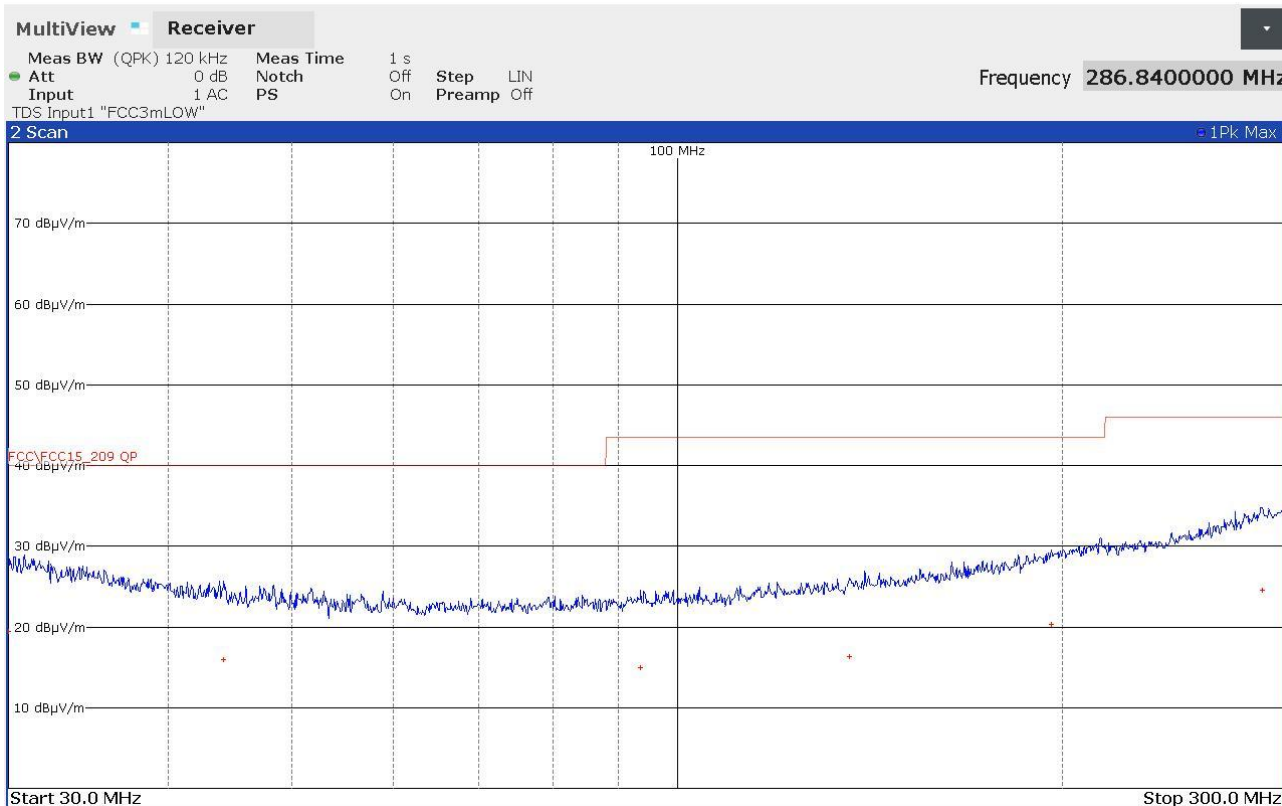
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
35080000	+19,82	-20,18
52120000	+18,81	-21,19
78720000	+18,21	-21,79
128680000	+25,09	-18,43
150280000	+25,52	-18,00
299840000	+25,48	-20,54

25233408_2

Segalla 25233409



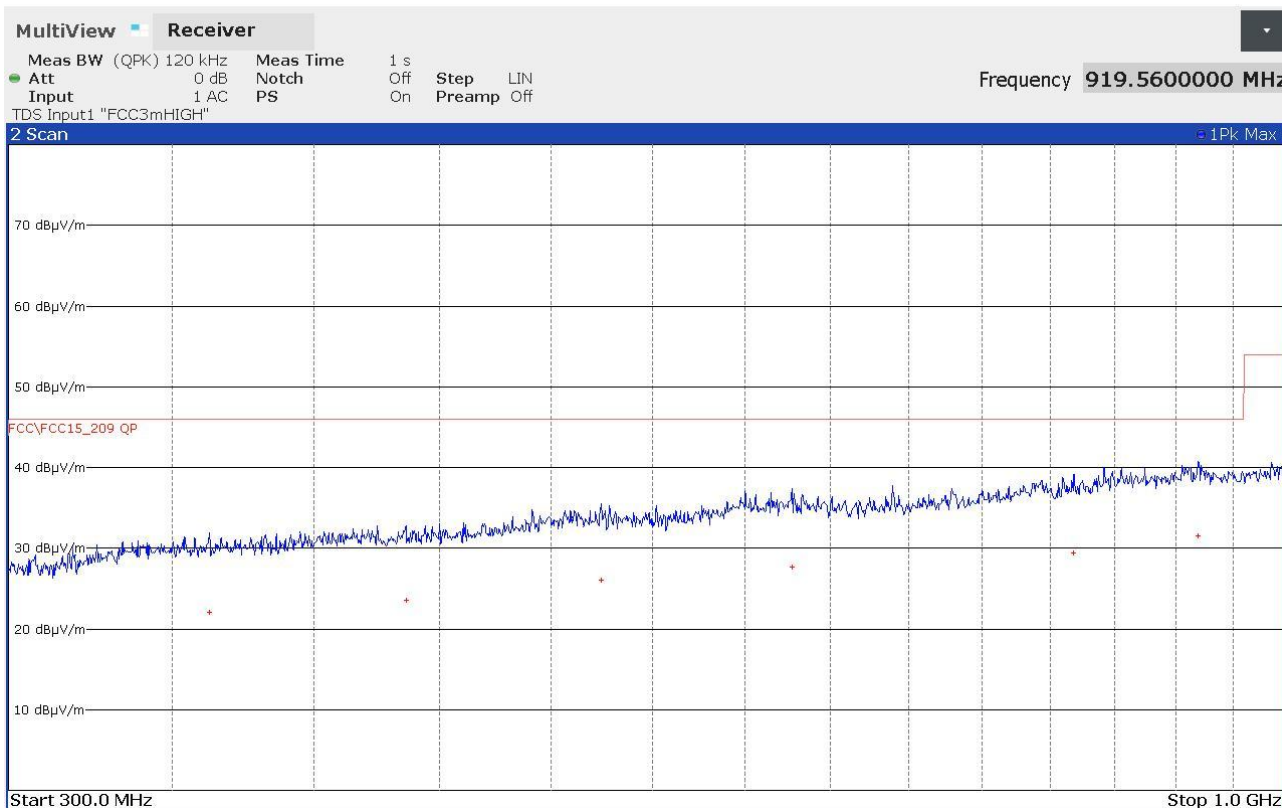
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
30000000	+19,48	-20,52
44200000	+15,98	-24,02
93600000	+14,93	-28,59
136320000	+16,35	-27,17
196080000	+20,32	-23,20
286840000	+24,50	-21,52

25233409_2

Segalla 25233410



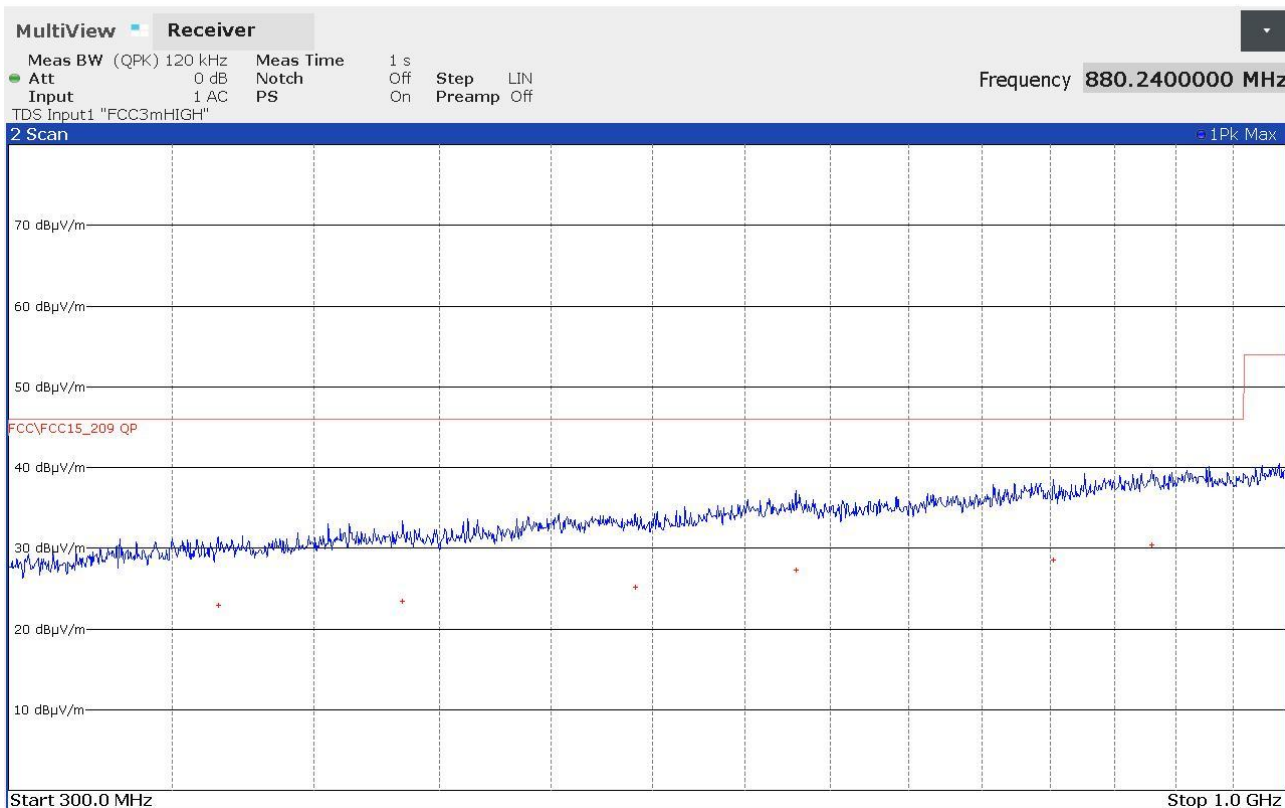
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
362520000	+22,05	-23,97
436120000	+23,54	-22,48
524120000	+26,09	-19,93
627240000	+27,70	-18,32
817920000	+29,47	-16,55
919560000	+31,48	-14,54

25233410_2

Segalla 25233411



FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
365520000	+22,90	-23,12
434680000	+23,41	-22,61
541040000	+25,23	-20,79
629520000	+27,35	-18,67
802160000	+28,57	-17,45
880240000	+30,39	-15,63

25233411_2

Attachment 1

Measurement uncertainty

Test	Test Setup	Expanded uncertainty	Note
Conducted emission CISPR 16 LISN 50uH 0,009-0,0150 MHz	PE001_01	3,5 dB	1
Conducted emission CISPR 16 LISN 50uH 0,150-30,0 MHz	PE001_01	2,9 dB	1
Conducted emission CISPR 16 Voltage Probe 0,15-30 MHz	PE001_02	2,2 dB	1
Conducted emission CISPR 16 Current Probe 0,15-30 MHz	PE001_03	2,5 dB	1
Conducted emission CISPR 16 ISN 0,15-30 MHz	PE001_04	4,7 dB	1
Clic CISPR 16 LISN 50uH 0,150-30,0 MHz	PE001_05	2,9 dB	1
Radiated Emission CDNE 30-300 MHz	PE001_06	3,3 dB	1
Disturbance Power 30-300 MHz	PE002_X1	3,8 dB	1
Radiated Emission LAS 0,15-30 MHz	PE003_01	2,0 dB	1
Radiated Emission CISPR 16 Loop Ant. 0,15-30 MHz	PE004_X1	4,1 dB	1
Radiated Emission CISPR 16 Bicon. Ant. 30-300 MHz	PE004_X2	4,7 dB	1
Radiated Emission CISPR 16 LogP. Ant. 300-1000 MHz	PE004_X3	4,6 dB	1
Radiated Emission CISPR 16 Horn Ant. 1-18 GHz	PE004_X4	4,7 dB	1
Human Exposure to electromagnetic fields	PE005_01	16,2 %	1
Harmonics	PE006_01	10 mA + 2,9 %	1
Flicker	PE007_01	3,40 %	1
Radiated Immunity 80 MHz - 6 GHz	PE102_XX	2,43 dB 0,97 V/m a 3V/m	1
Conducted Immunity 0,15 - 230 MHz	PE105_XX	1,26 dB 0,47 V a 3V	1
AC Magnetic field	PE106_01	1,55 % 0,15 A/m a 10A/m	1
Pulse Magnetic field	PE107_01	6,21 % 18,6 A/m a 300A/m	1
Dumped Magnetic field	PE108_01	6,21 % 1,86 A/m a 30A/m	1
Common mode conducted immunity	PE112_01	2,11 % 0,21 V a 10V	1

Test	Test Setup	Expanded uncertainty	Note
Power/Spurious 9kHz-30MHz	PR001_X1	4,1 dB	1
Power/Spurious ERP 30-1000MHz d=10m/3m	PR001_X2+X3	4,8 dB	1
Misura della potenza EIRP 1-18GHz d=3m	PR001_X4+X5	4,7 dB	1
Misura della potenza EIRP 18-40GHz d=3m	PR001_X6	5,1 dB	1
Frequency error	PR002_01+02	$< 1 \times 10^{-7}$	1
Timing zero span (1001pts.)	PR002_01+02	0,2 % SWT	1
Modulation bandwidth	PR002_01+02	$< 1 \times 10^{-7}$	1
Conducted RF power and spurious emission	PR002_01+02	1,1 dB	1
Adjacent channel power	PR002_01+02	1,1 dB	1
Blocking	PR002_01+02	1,1 dB	1

Test	Test Setup	Expanded uncertainty	Note
Electrostatic discharge immunity test	PE101_0X		2
Electrical fast transients / burst immunity test	PE103_0X		2
Surge immunity test	PE104_0X		2
Short interruption immunity test	PE109_01		2
Ring Wave immunity test	PE110_01		2
Low frequency immunity test	PE111_01		2
Dumped Oscillatory immunity test	PE113_01		2
Rev_25_01 date 26/02/2025			

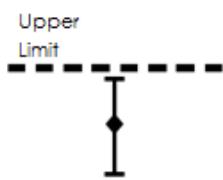
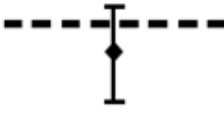
Note 1:

The expanded uncertainty reported according to the document EA-4-02 is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of $p = 95\%$

Note 2:

It has been demonstrated that the used test equipment meets the specified requirements in the standard with at least a 95% confidence, covering factor $k=2$

Judgement of compliance

Case 1	Case 2	Case 3	Case 4
 The sample complies with the requirements. The measurement results is within the specification limit when the measurement uncertainty is taken into account.	 The sample complies with the requirements. It is not possible to state compliance using a 95% coverage probability for the expanded uncertainty although the measurement result is below the limit.	 The sample does not comply with the requirements. It is not possible to state compliance using a 95% coverage probability for the expanded uncertainty also the measurement result is upper the limit.	 The sample does not comply with the requirements. The measurement results is outside the specification limit when the measurement uncertainty is taken into account.

In agreement with ILAC-G8:09/2019 cl.4.2.1 Guidelines on Decision Rules and Statements of Conformity

Quality manual references – Internal procedure

Internal Procedure PM001 rev. 4.1 (Quality Manual)	Measure procedure
Internal Procedure INC_M rev. 10.1 (Quality Manual)	Measurement uncertainty calculation

Attachment 2

Components list provided by the customer

Item	Component Code	Unit	Qty.	Description / Notes
10	21415C	PZ	1,000	SPESSORE SEALED AIR 30 X 25 CM
20	22565A	PZ	1,000	SACCHETTO 15X22 SP.0,07 NEUTRO
30	2R318C	PZ	1,000	ETICHETTA BIANCA 110X60 C2
40	2R318S	PZ	1,000	ETICHETTA FOIL SEL 50X50 A6
70	56921612	PZ	3,000	VITE T.E.FLANG.ZIG.M6X12 ZINC.
91	569542922	PZ	2,000	AUTOOF.NAZ. TC 2,9X22 + NICH.
100	569542964	PZ	4,000	AUTOOF.NAZ.TC+PH 2,9X6,5 NIC
111	569543595	PZ	4,000	AUTOOF.NAZ.TC+PH 3,5X9,5 NIC.
120	569544295	PZ	4,000	AUTOOF.NAZ. TC+PH 4,2X9,5 ZINC.
131	5695429127	PZ	2,000	AUTOOF.NAZ.TC+PH 2,9X12,7 NICH.
140	569543564SP	PZ	2,000	AUTOOF.NAZ.TC+PH 3,5X6,5 NIC.SP
170	A261BAS0A	PZ	1,000	BASAMENTO MOTORID. A256MTR
180	A068COV4A	PZ	1,000	COVER VANO CONNETTORI USA
191	A454SUP0A	PZ	1,000	FERMO MECCANICO PER WIFI
200	A245CAB5A	PZ	1,000	CABLAGGIO ALIMENT. MAINBOARD
211	A247CAB2A	PZ	1,000	ANTENNA INTERNA 315 MHZ
221	A253CAB2A	PZ	1,000	CAVO ALIMENT.SPINA US/CANADA
230	A254SUP0A	PZ	2,000	DISTANZIALE IN NYLON 5X5X3
241	A256MTR1B	PZ	1,000	MOTORIDUTTORE SPIDER MEDIO
252	A258GRP3A	PZ	1,000	KIT BATTERIE FLEX USA
261	A281COV3C	PZ	1,000	COVER INFERIORE SPIDER KWIKSET
270	A285GRP3A	PZ	1,000	COVER SUPERIORE SPIDER USA
290	A380SUP0A	PZ	2,000	BIADESIVO ALIMENTATORE 120X30
302	A448CAB2A	PZ	1,000	CAVO PER ACCESSORI L.90 PIEDI
310	A449LAB0A	PZ	1,000	ETICHETTA DI AVVERTENZA USA
321	A391PAC1A	PZ	1,000	IMBALLO SPARK/YGO
331	3KSTX3	PZ	1,000	TELECOMANDO KWIKSET 3 PULSANTI
340	KSWs	PZ	1,000	WALLSTATION SPIDER-USA KWIKSET
351	1LCU60N	PZ	1,000	LCU60 MAINBOARD SPIDER NA
361	1LGT4K35	PZ	1,000	LED PCB 3500LM 4000K 24V H 130
370	PB	PZ	1,000	FOTOCELLULA SPIDER USA
380	PSU36150A	PZ	1,000	ALIMENTATORE 150W 36V DELTA
391	1RCB201B	PZ	1,000	MODULO WIFI KALAHARI USA
401	1RCB50N	PZ	1,000	MODULO RICEVENTE 315 NA
410	574746	PZ	2,000	DADO AUTOB.M6 BASSO A5.8 ZINC.
420	565936418	PZ	2,000	RONDELLA GREMBIULINA 6,4X18 Z.
430	55739616	PZ	2,000	VITE T.E. 8.8 M6X16 ZINC.
441	569542995	PZ	3,000	AUTOOF.NAZ. TC 2,9X9,5 + NICH.
450	5PAL100120HT	PZ	0,018	PALLET 100X120 HT USA