



TEST REPORT Nr. R20222501

Federal Communication Commission (FCC)

Report Reference No.	R20222501
Date of issue:	11.01.2021
Total number pages:	80
Applicant's name	Caen RFID S.r.l.
Address	Via Vetraia, 11 – 55049 Viareggio (LU) – Italy
Test specification:	
Standards	FCC Rules & Regulations, Title 47:2019 Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247
Non-standard test method	N/A
Test Report Form No.	15-247_HoppingCMC
Test Report Form(s) Originator ..	CMC Centro Misure Compatibilità S.r.l.
Master TRF	2020-10
General disclaimer:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of CMC Centro Misure Compatibilità S.r.l.	
Test item description	R1280IU – skid – RAIN RFID Mini Sled Reader FCC
Trademark	Caen RFID
Manufacturer	Caen RFID S.r.l.
Model / Type reference	WR1280IXUSAA
FCC ID	UVECAENRFID032
Rating(s)	3,7 Vdc from battery 5 Vdc from USB
Report	
Tested by (name + signature)	G. Gandini
Approved by (name + signature)	R. Beghetto



1 Summary

1	Summary.....	2
2	Reference standard	3
3	List of attachments.....	3
4	Deviation(s) from test specification.....	3
5	Testing location.....	3
6	General description of test item(s).....	5
6.1	Photos of the test item.....	6
7	Verdict summary section	8
8	Test conditions.....	10
8.1	General	10
9	Test results	11
9.1	Antenna requirements	11
9.2	Conducted emission	12
9.3	Emissions in restricted frequency bands and in unrestricted frequency bands	16
9.4	20 dB bandwidth.....	51
9.5	Channel separation.....	55
9.6	Number of hopping channels.....	58
9.7	Time of occupancy.....	62
9.8	Band edge	66
9.9	Peak Output Power.....	72



2 Reference standard	
FCC Rules and Regulation Title 47 part 15:2019	--
3 List of attachments	
Attachment 1: Instruments list, measurement uncertainty, judgement of compliance and quality manual references	
4 Deviation(s) from test specification	
None	
5 Testing location	
CMC Centro Misure Compatibilità S.r.l. Via della Fisica, 20 – 36016 Thiene (VI) – Italy Test site facility's FCC registration number: 182474	

Revision index	Date	Change history
1.0	11.01.2021	--



Testing and sampling:	
Date of receipt of test item	13.11.2020
Testing start date	26.11.2020
Testing end date	21.12.2020
Sampling procedure.....	Equipment used for testing was picked up by the manufacturer, at the end of the production process with random criterion. The results relate to the sample as it has been received.
Internal identification	Adhesive label with the product number P201186
General remarks:	
This report shall not be reproduced, except in full, without the written approval of CMC. The test results presented in this report relate only to the object tested. “(see appended table)”: refers to a table appended to the report. Throughout this report a comma is used as the decimal separator.	
Possible test case verdicts:	
Test case does not apply to the test object:	N/A (Not Applicable)
Test object does meet the requirement:	P (Pass)
Test object does not meet the requirement:	F (Fail)
Test object does not performed:	N/E (Not Executed)
Definition of symbols used in this test report:	
☒ Indicates that the listed condition, standard or equipment is applicable for this report. ☐ Indicates that the listed condition, standard or equipment is not applicable for this report.	



6 General description of test item(s)

Description	R1280IU – skid – RAIN RFID Mini Sled Reader FCC						
Model Number	WR1280IXUSAA						
FCC ID	UVECAENRFID032						
Serial Number	0001000120400001						
Brand name	Caen RFID						
Frequency band	902 – 928 MHz						
Nominal frequencies	F _L : 902,75 MHz		F _M : 921,75 MHz		F _H : 927,25 MHz		
Ports.....	Port name and description		Cable				
			Specified length [m]	Attached during test	Shielded		
	USB cable		< 3	☒	☒		
Rated power supply		Voltage and Frequency	Reference poles				
			N	L1	L2	L3	PE
	☐	AC:	☐	☐	☐	☐	☐
	☐	AC:	☐	☐	☐	☐	☐
	☒	DC: 5 V from USB					
Software version	1.3.1						
Pseudo randomly ordered list of hopping frequencies	See document R1280IU_Operational_Description						
Test configuration	☐	Table top equipment					
	☐	Floor standing equipment					
	☒	Hand-held equipment					
Type of equipment	☒	Transmitter unit					
	☒	Receiver unit					
Type of station	☐	Fixed station					
	☒	Portable station					
	☐	Mobile station					
Operating modes	No.	Operating mode of test item					
	1	EUT in continuous transmission at maximum power					



6.1 Photos of the test item







7 Verdict summary section

FCC Rules & Regulations, Title 47:2019 Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247			
Clause	Requirement – Test case	Basic standard	Verdict
Part 15.247 (a) (1)	Pseudo randomly ordered list of hopping frequencies	--	P
Part 15.203	Antenna requirements	ANSI C63.10	P
Part 15.207	Conducted emissions	ANSI C63.10	P
Part 15.209	Radiated emissions and spurious emission	ANSI C63.10	P
Part 15.247	20 dB Bandwidth	ANSI C63.10	P
Part 15.247	Channel Separation	ANSI C63.10	P
Part 15.247	Number of Hopping Channel	ANSI C63.10	P
Part 15.247	Time of occupancy	ANSI C63.10	P
Part 15.247	Band edge	ANSI C63.10	P
Part 15.209 and 15.247	Peak Output Power	ANSI C63.10	P



Normative references	
Reference no.	Description
FCC Rules and Regulation Title 47 part 15:2019	--
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 C63.4:2014	American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz
ANSI C63.10:2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices



8 Test conditions

8.1 General

Environmental reference 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.		
Measurement uncertainties	Attachment 1		



9 Test results

9.1 Antenna requirements

Tested by	G. Gandini	
Test date	26.11.2020	
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.203 and 15.204	
Test specification	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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. 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	
Antenna type.....	☒	Integral antenna
	☐	External antenna
	☐	Dedicated antenna
Antenna gain.....	3 dBi	
External R.F. power amplifier	Not Present	



9.2 Conducted emission

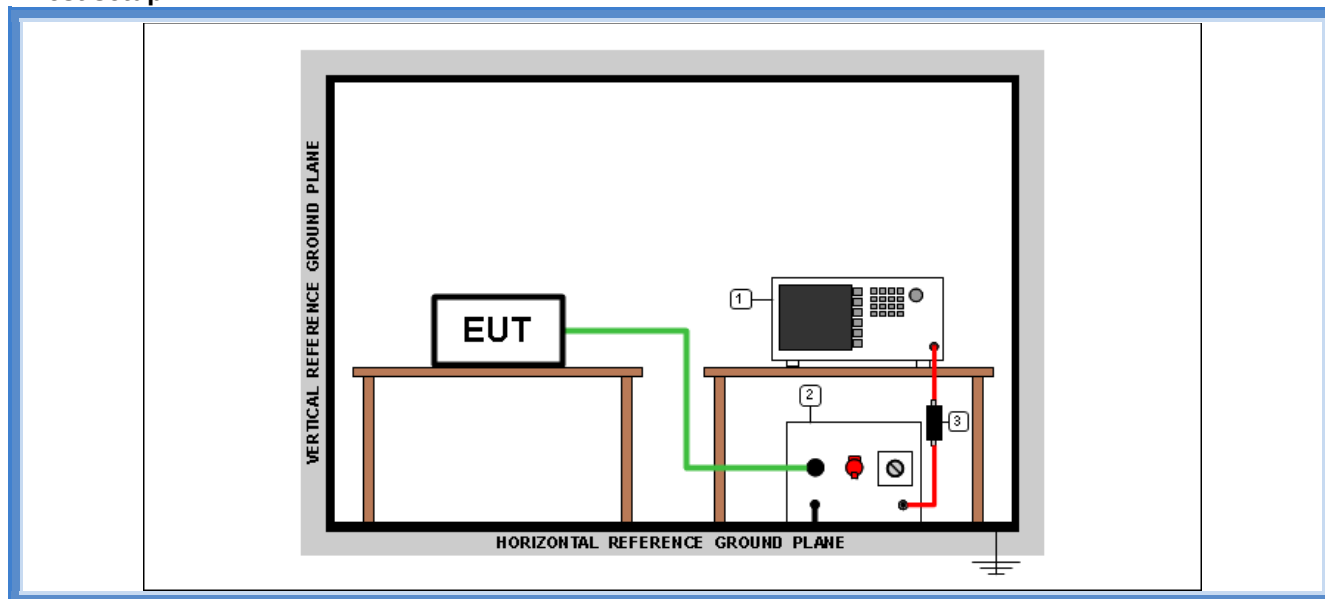
Tested by	G. Gandini	
Test date	27.11.2020	
Test location (stand)	Shielded chamber (CMC A001)	
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.207 ANSI C63.10 cl. 6.2	
Test set-up description	☒	Table top equipment set-up (80 cm above the reference ground plane)
	☐	Floor standing equipment 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	☒	Artificial mains network, 50 μ H/50 Ω LISN
	☐	Other:

Acceptance limits

Frequency range (MHz)	<i>dB(μV) Quasi-peak</i>	<i>dB(μV) Average</i>
0,15 to 0,50	66 to 56	56 to 46
0,5 to 5	56	46
5 to 30	60	50



Test setup



Test setup PE001_01

Nr.	Id. Number	Manufacturer	Model	Description
3	CMC S010	Rohde & Schwarz	ESH3-Z2	Pulse limiter
2	CMC S200	Schwarzbeck	NSLK 8128	V-LISN
1	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz

Result

Line	Frequency Range (MHz)	Graphs	Remarks	Result
N	0,15 – 30	G20222529	--	P
L1	0,15 – 30	G20222530	--	P

Remarks: test performed on 120 Vac side of auxiliary PC power unit

Graphs Legend

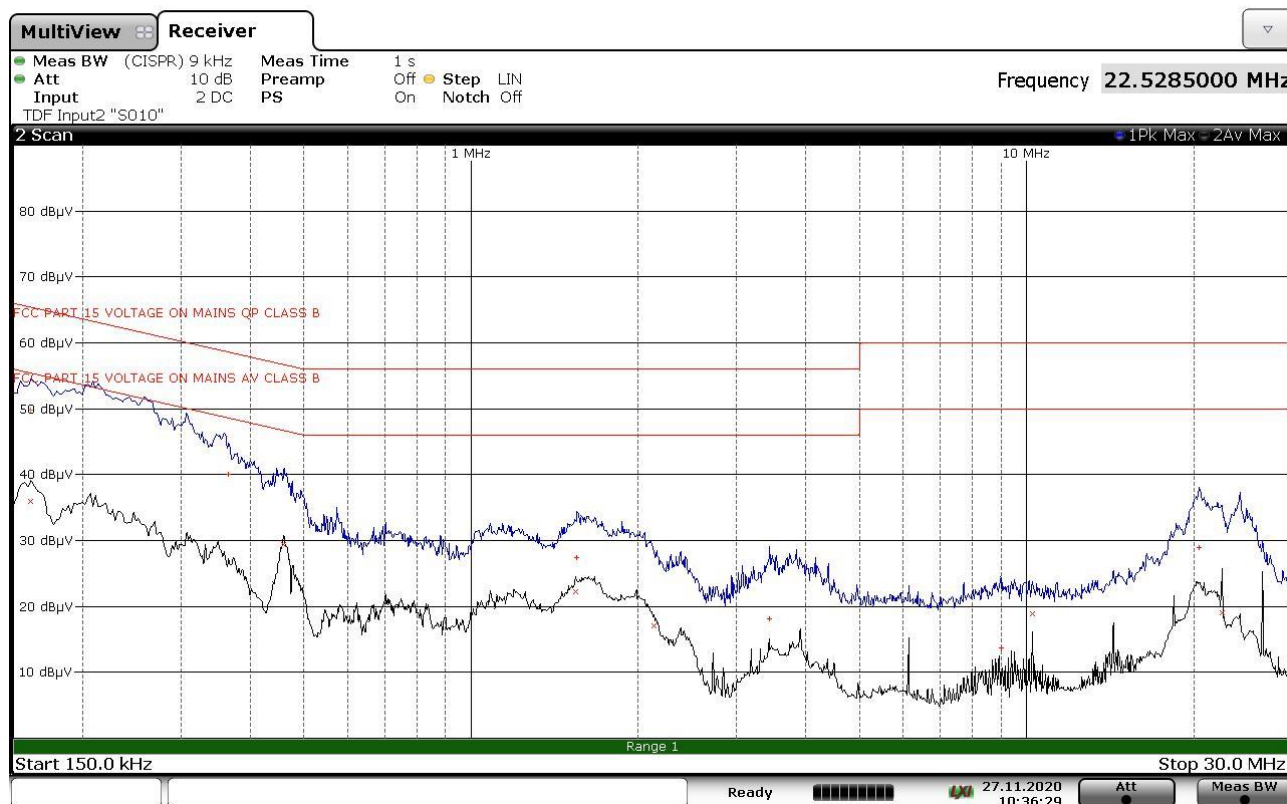
PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a +

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



Graphs

Gandini 20222529



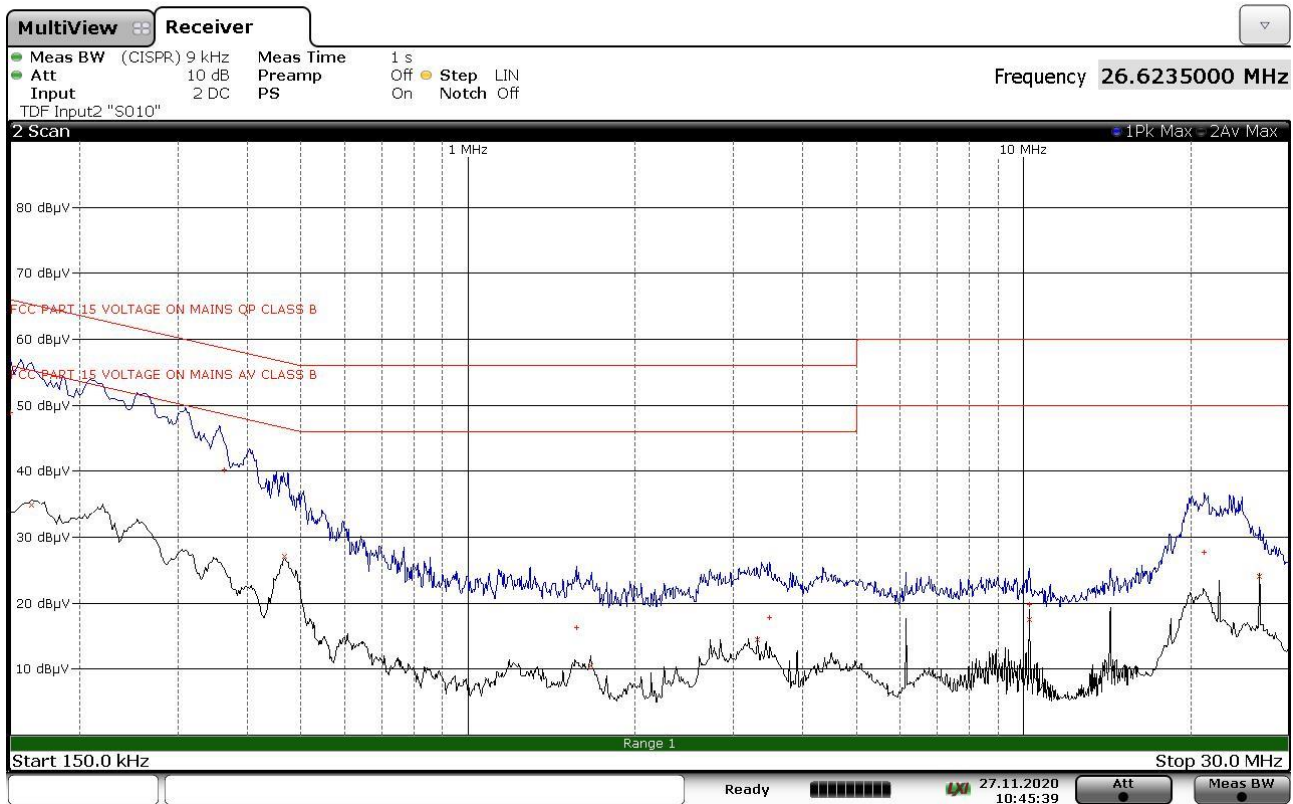
FINAL RESULT TABLE

QUASI PEAK			AVERAGE		
Freq Hz	Lev dBuV	Margin dB	Freq Hz	Lev dBuV	Margin dB
161250	+49,77	-15,63	161250	+35,89	-19,51
366000	+40,09	-18,50	460500	+29,37	-17,31
1549500	+27,45	-28,55	1542750	+22,29	-23,71
3446250	+18,18	-37,82	2132250	+17,11	-28,89
8992500	+13,69	-46,31	10239000	+18,93	-31,07
20467500	+28,97	-31,03	22528500	+19,06	-30,94

20222529_2



Gandini 20222530



FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV	Margin dB
150000	+48,82	-17,18
363750	+40,14	-18,50
1567500	+16,23	-39,77
3493500	+17,81	-38,19
10241250	+19,77	-40,23
21174000	+27,73	-32,27

AVERAGE

Freq Hz	Lev dBuV	Margin dB
163500	+34,86	-20,42
467250	+27,16	-19,40
1664250	+10,53	-35,47
3320250	+14,48	-31,52
10239000	+17,55	-32,45
26623500	+24,03	-25,97

20222530_2



9.3 Emissions in restricted frequency bands and in unrestricted frequency bands

Tested by	G. Gandini	
Test date	26.11.2020	
Test location (stand)	Semi-anechoic chamber (CMC A070)	
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.209 ANSI C63.10 cl. 6.3, 6.4, 6.5 and 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	☒	SAC with measurement distance [m]: 10 m at frequencies ≤ 1 GHz 3 m at frequencies > 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	48,5 to 13,8
0,490 to 1,705	30	33,8 to 22,9
1,705 to 30	30	29,5
30 to 88	3	40
88 to 216	3	43,5
216 to 960	3	46,0
960 to 1000	3	54

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 results 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 restricted frequency bands are listed in the following table

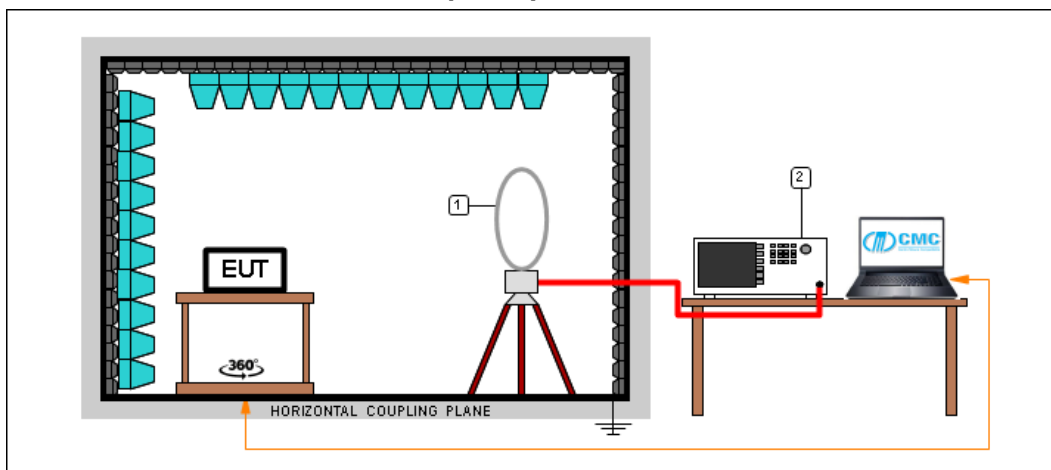
MHz	MHz	MHz	GHz
0,090 – 0,110	16,42 – 16,423	399,9 – 410	4,5 – 5,15
0,495 – 0,505	16,69475 – 16,69525	608 – 614	5,35 – 5,46
2,1735 – 2,1905	16,80425 – 16,80475	960 – 1240	7,25 – 7,75
4,125 – 4,128	25,5 – 25,67	1300 – 1427	8,025 – 8,5
4,17725 – 4,17775	37,5 – 38,25	1435 – 1626,5	9,0 – 9,2
4,20725 – 4,20775	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

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

Test setup

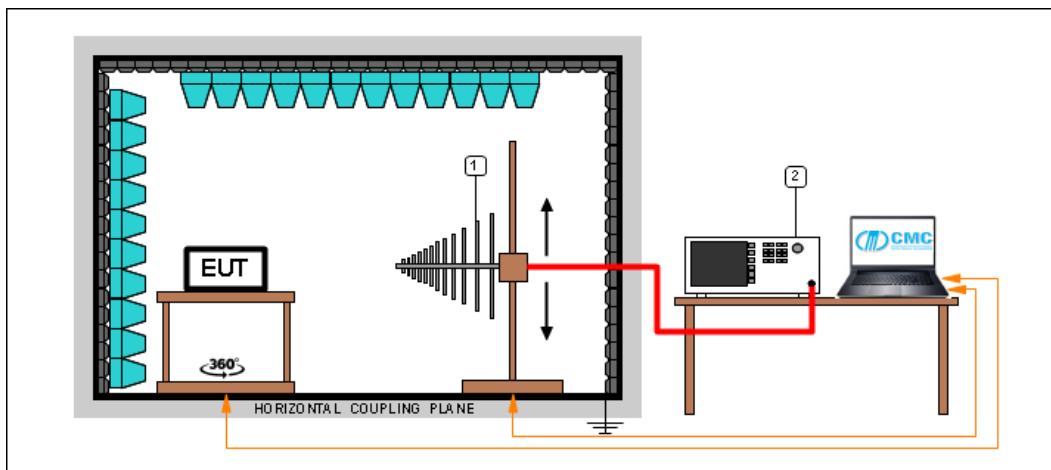
Frequency ≤ 30 MHz



Test setup PE004_01

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S164	Rohde & Schwarz	ESU26	Receiver 20 Hz - 26.5 GHz
1	CMC S127	Schaffner	HLA6120	Loop Antenna 9kHz - 30MHz

Frequency ≤ 1 GHz



Test setup PE004_02

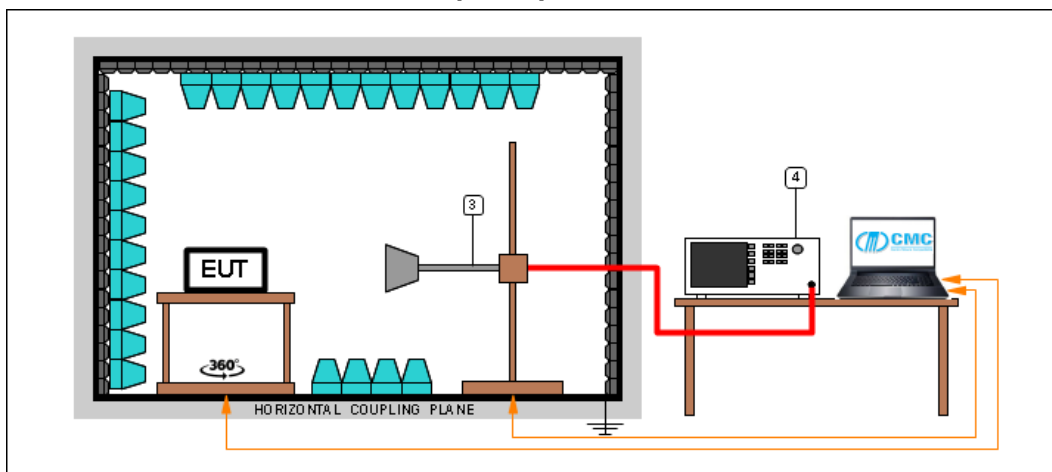
Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S164	Rohde & Schwarz	ESU26	Receiver 20 Hz - 26.5 GHz
1	CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	Broadband Antenna

Test setup PE004_03

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S164	Rohde & Schwarz	ESU26	Receiver 20 Hz - 26.5 GHz
1	CMC S287	Schwarzbeck	VUSLP 9111B	Broadband Antenna



Frequency > 1 GHz



Test setup PE004_04

Nr.	Id. Number	Manufacturer	Model	Description
4	CMC S164	Rohde & Schwarz	ESU26	Receiver 20 Hz - 26.5 GHz
3	CMC S108	Emco	3115	Waveguide antenna



Result

Polarization	Frequency Range (MHz)	Graphs	Remarks	Result
V	300 – 1000	G20222501	Lowest channel	P
H	300 – 1000	G20222502	Lowest channel	P
H	300 – 1000	G20222503	Medium channel	P
V	300 – 1000	G20222504	Medium channel	P
V	300 – 1000	G20222505	Highest channel	P
H	300 – 1000	G20222506	Highest channel	P
H	30 – 300	G20222507	Worst case	P
V	30 – 300	G20222508	Worst case	P
Loop	0,009 – 30	G20222509	Worst case	P
V	1000 – 10000	G20222531	Lowest channel	P
H	1000 – 10000	G20222532	Lowest channel	P
H	1000 – 10000	G20222533	Medium channel	P
V	1000 – 10000	G20222534	Medium channel	P
V	1000 – 10000	G20222535	Highest channel	P
H	1000 – 10000	G20222536	Highest channel	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 caused by the nominal transmitting frequencies

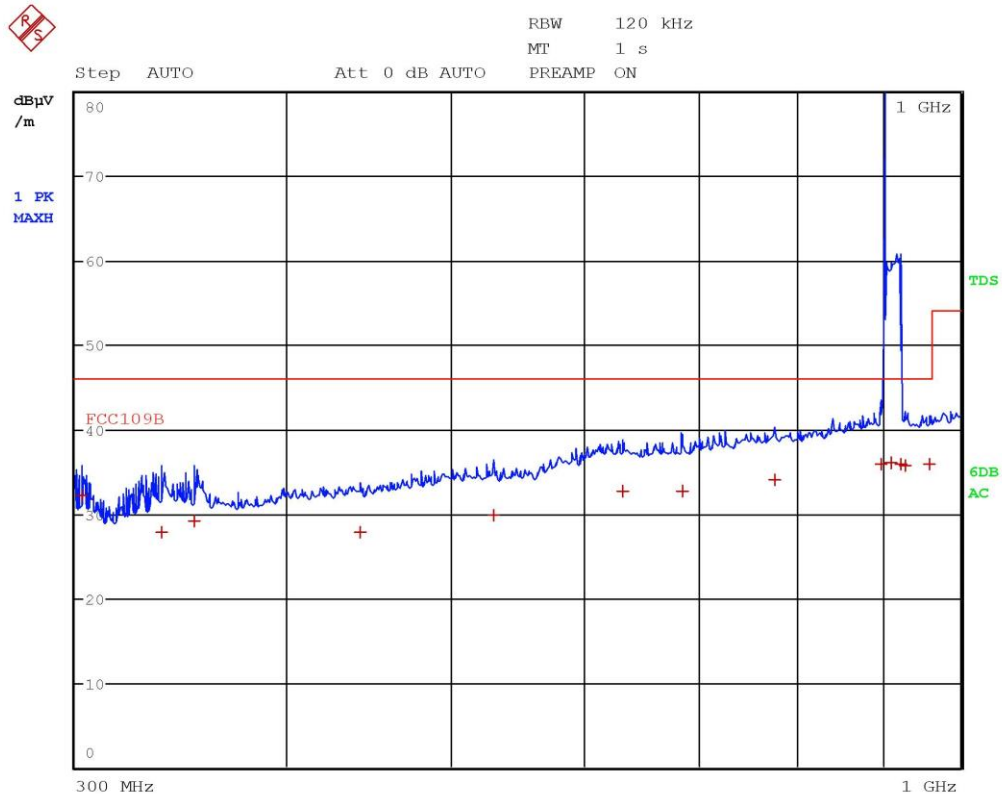
Graphs Legend

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

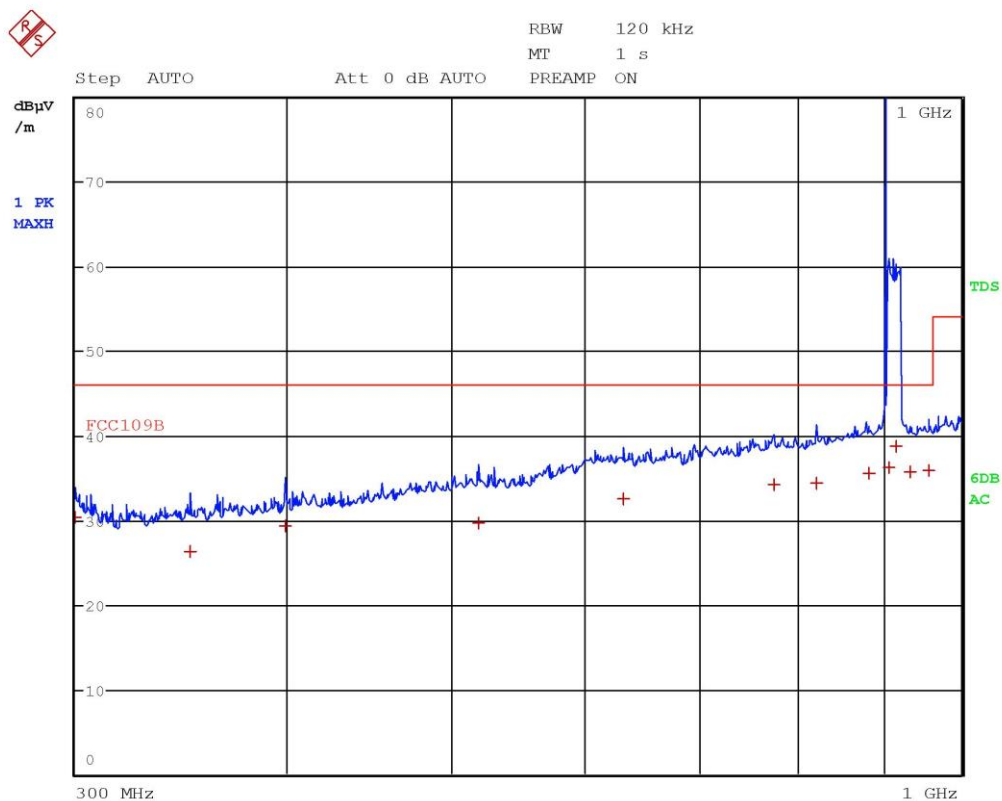


Gandini 20222501



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC109B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	303.04 MHz	32.12	-13.89
1 Quasi Peak	337.52 MHz	27.82	-18.20
1 Quasi Peak	352.96 MHz	29.17	-16.84
1 Quasi Peak	441.84 MHz	27.76	-18.25
1 Quasi Peak	529.68 MHz	29.82	-16.19
1 Quasi Peak	631.84 MHz	32.61	-13.40
1 Quasi Peak	685.04 MHz	32.61	-13.40
1 Quasi Peak	776.52 MHz	34.02	-11.99
1 Quasi Peak	897.24 MHz	35.82	-10.19
1 Quasi Peak	910.16 MHz	35.99	-10.02
1 Quasi Peak	921.88 MHz	35.79	-10.22
1 Quasi Peak	926.76 MHz	35.75	-10.26
1 Quasi Peak	958.4 MHz	35.93	-10.08

Gandini 20222501

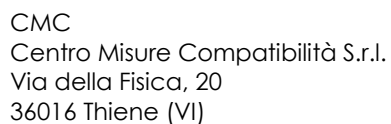


Gandini 20222502

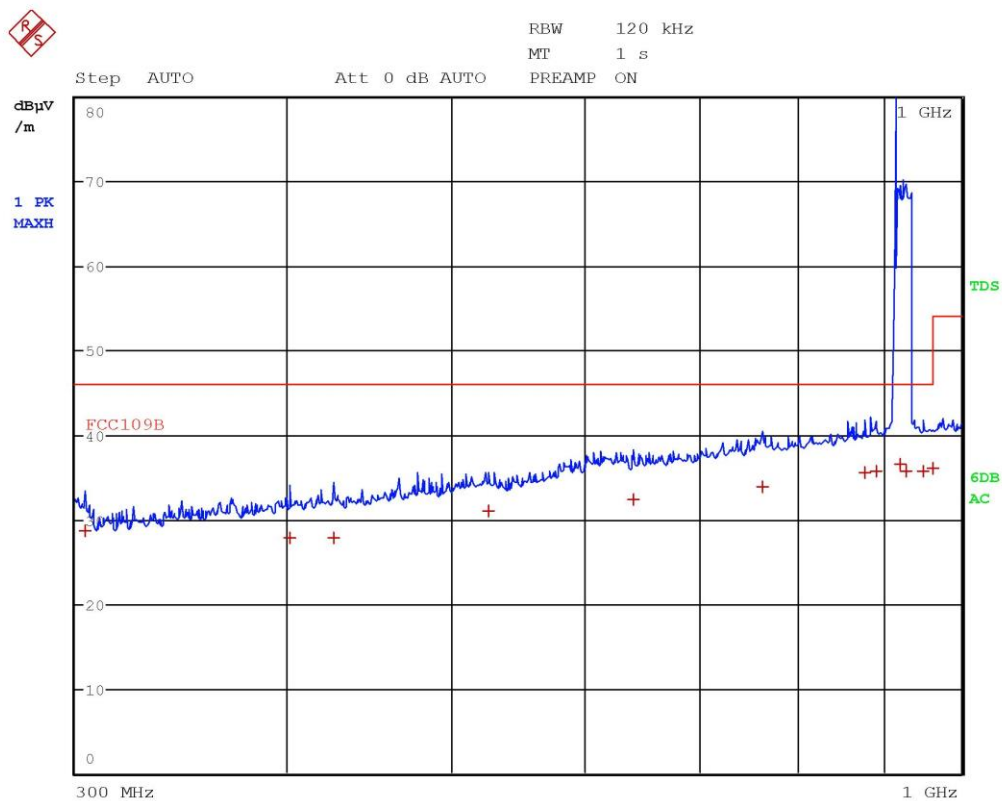


EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC109B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	300.16 MHz	30.39	-15.62
1 Quasi Peak	351.04 MHz	26.31	-19.70
1 Quasi Peak	399.36 MHz	29.39	-16.62
1 Quasi Peak	518.92 MHz	29.62	-16.39
1 Quasi Peak	632.2 MHz	32.51	-13.50
1 Quasi Peak	775.6 MHz	34.13	-11.89
1 Quasi Peak	820.92 MHz	34.31	-11.70
1 Quasi Peak	881.64 MHz	35.54	-10.47
1 Quasi Peak	906.64 MHz	36.23	-9.78
1 Quasi Peak	914.96 MHz	38.70	-7.31
1 Quasi Peak	932.4 MHz	35.71	-10.30
1 Quasi Peak	956.64 MHz	35.88	-10.14

Gandini 20222502



LAB N° 0168 L

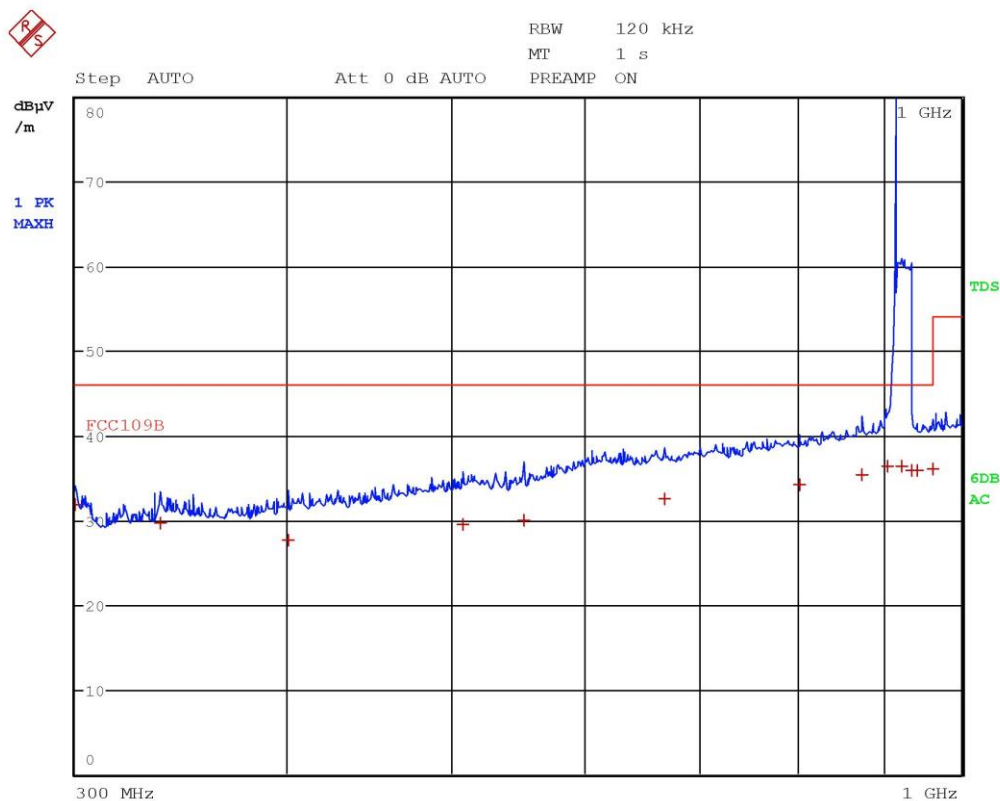


Gandini 20222503



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC109B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	304.16 MHz	28.62	-17.39
1 Quasi Peak	401.12 MHz	27.74	-18.27
1 Quasi Peak	426.12 MHz	27.83	-18.18
1 Quasi Peak	526.32 MHz	30.97	-15.04
1 Quasi Peak	640.84 MHz	32.31	-13.70
1 Quasi Peak	763.56 MHz	33.89	-12.12
1 Quasi Peak	876.76 MHz	35.47	-10.54
1 Quasi Peak	890 MHz	35.63	-10.38
1 Quasi Peak	920.92 MHz	36.52	-9.49
1 Quasi Peak	927.52 MHz	35.65	-10.36
1 Quasi Peak	949.28 MHz	35.73	-10.28
1 Quasi Peak	961.96 MHz	36.04	-17.93

Gandini 20222503

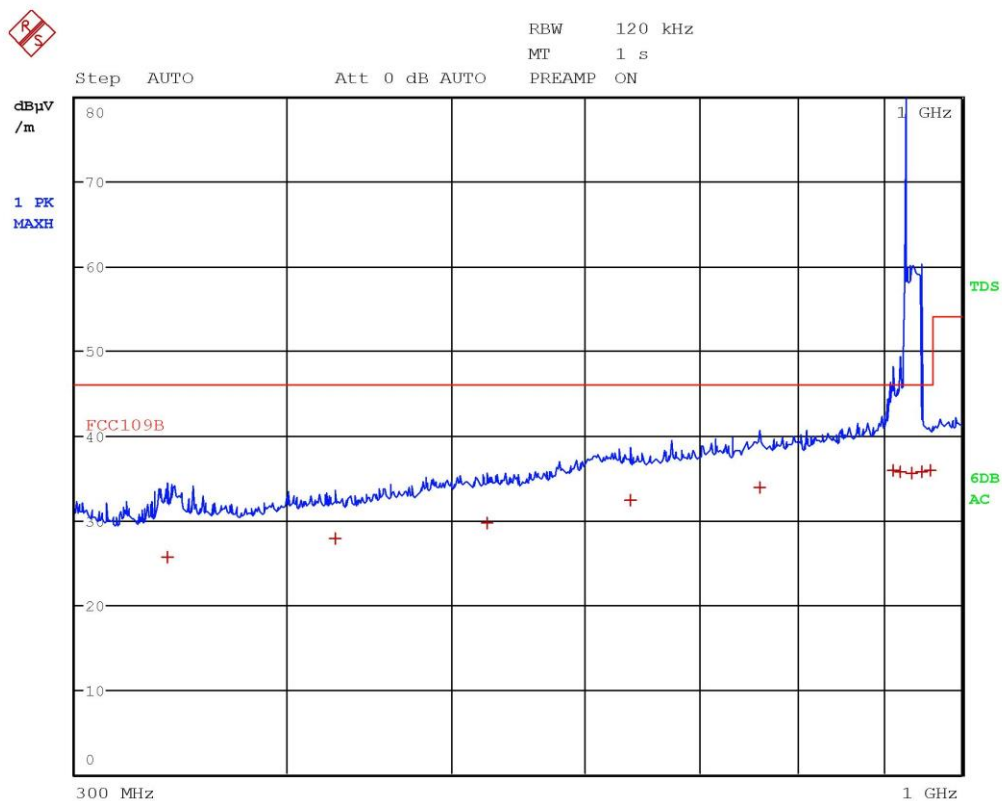


Gandini 20222504



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC109B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	300.16 MHz	31.78	-14.23
1 Quasi Peak	336.84 MHz	29.60	-16.41
1 Quasi Peak	401 MHz	27.65	-18.36
1 Quasi Peak	507.6 MHz	29.50	-16.51
1 Quasi Peak	552.36 MHz	29.92	-16.09
1 Quasi Peak	668.28 MHz	32.53	-13.48
1 Quasi Peak	802.68 MHz	34.21	-11.80
1 Quasi Peak	872.92 MHz	35.37	-10.64
1 Quasi Peak	904.88 MHz	36.41	-9.60
1 Quasi Peak	922.96 MHz	36.37	-9.64
1 Quasi Peak	933.8 MHz	35.86	-10.15
1 Quasi Peak	941.56 MHz	35.87	-10.15
1 Quasi Peak	962.56 MHz	36.05	-17.92

Gandini 20222504

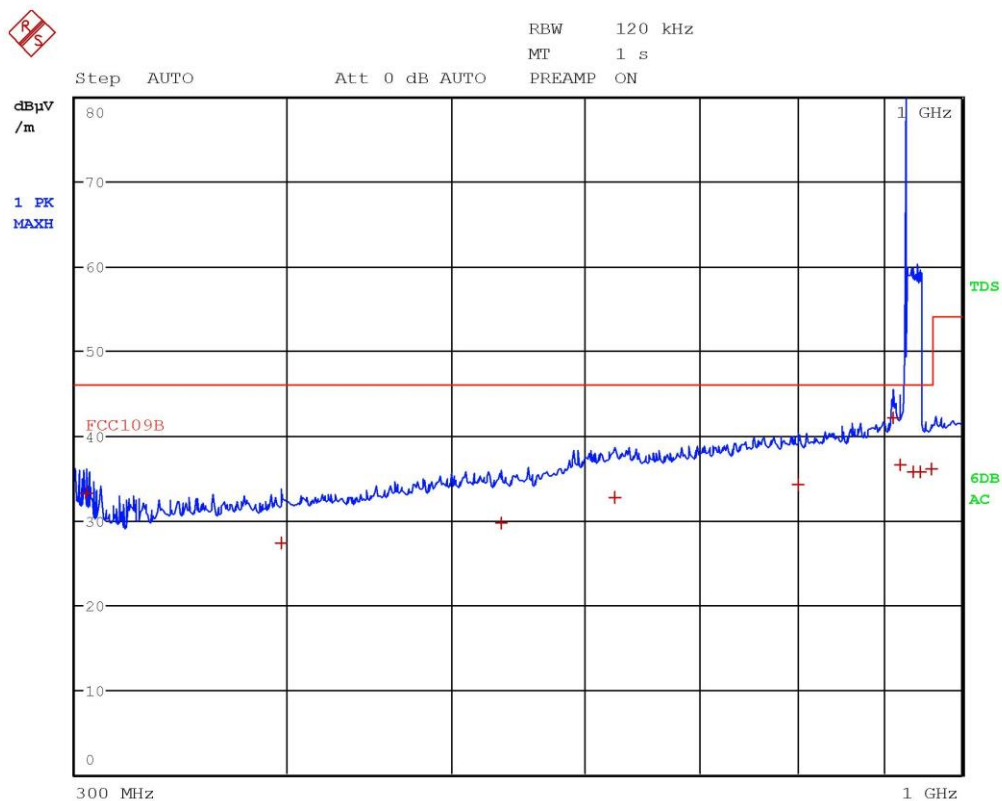


Gandini 20222505



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC109B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	339.84 MHz	25.69	-20.32
1 Quasi Peak	426.88 MHz	27.77	-18.24
1 Quasi Peak	525.32 MHz	29.69	-16.32
1 Quasi Peak	637.72 MHz	32.27	-13.74
1 Quasi Peak	760.12 MHz	33.93	-12.08
1 Quasi Peak	912.04 MHz	35.81	-10.21
1 Quasi Peak	920.76 MHz	35.79	-10.22
1 Quasi Peak	935.28 MHz	35.62	-10.39
1 Quasi Peak	947.2 MHz	35.66	-10.35
1 Quasi Peak	958.24 MHz	35.89	-10.12

Gandini 20222505

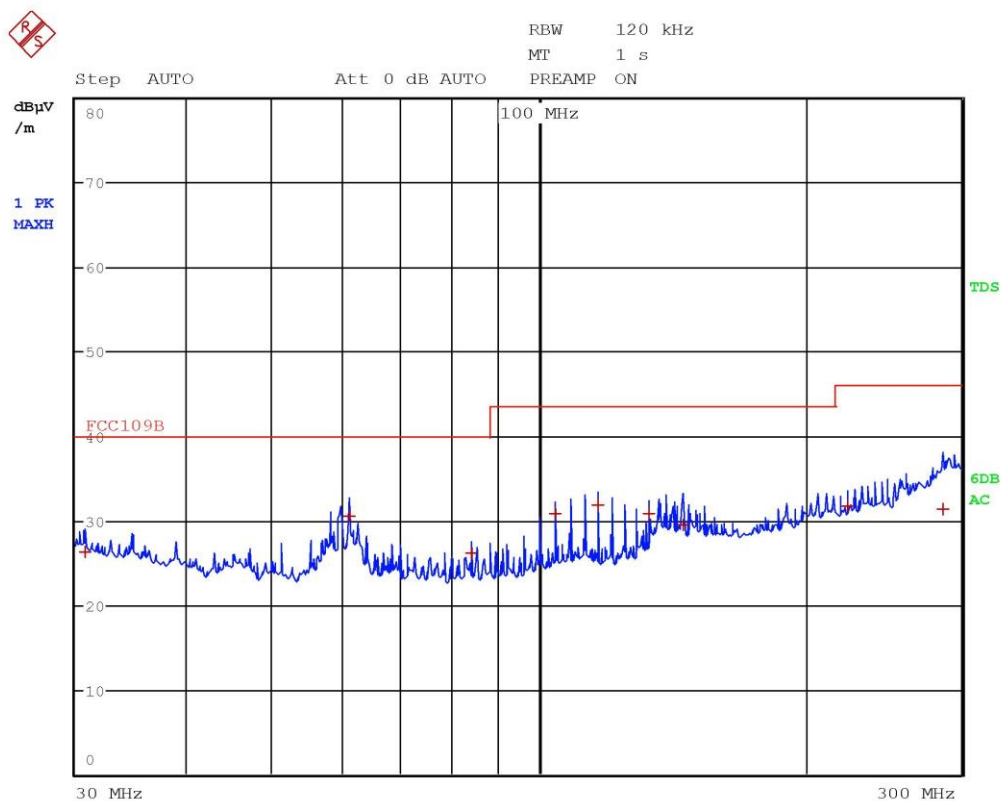


Gandini 20222506



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC109B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	304.6 MHz	33.26	-12.75
1 Quasi Peak	397 MHz	27.35	-18.67
1 Quasi Peak	535.64 MHz	29.74	-16.27
1 Quasi Peak	624.4 MHz	32.60	-13.41
1 Quasi Peak	800.4 MHz	34.21	-11.80
1 Quasi Peak	912.04 MHz	42.06	-3.96
1 Quasi Peak	920.76 MHz	36.53	-9.48
1 Max Peak	927.24 MHz		
1 Quasi Peak	936.4 MHz	35.74	-10.27
1 Quasi Peak	945.24 MHz	35.71	-10.30
1 Quasi Peak	959.36 MHz	35.97	-10.04

Gandini 20222506

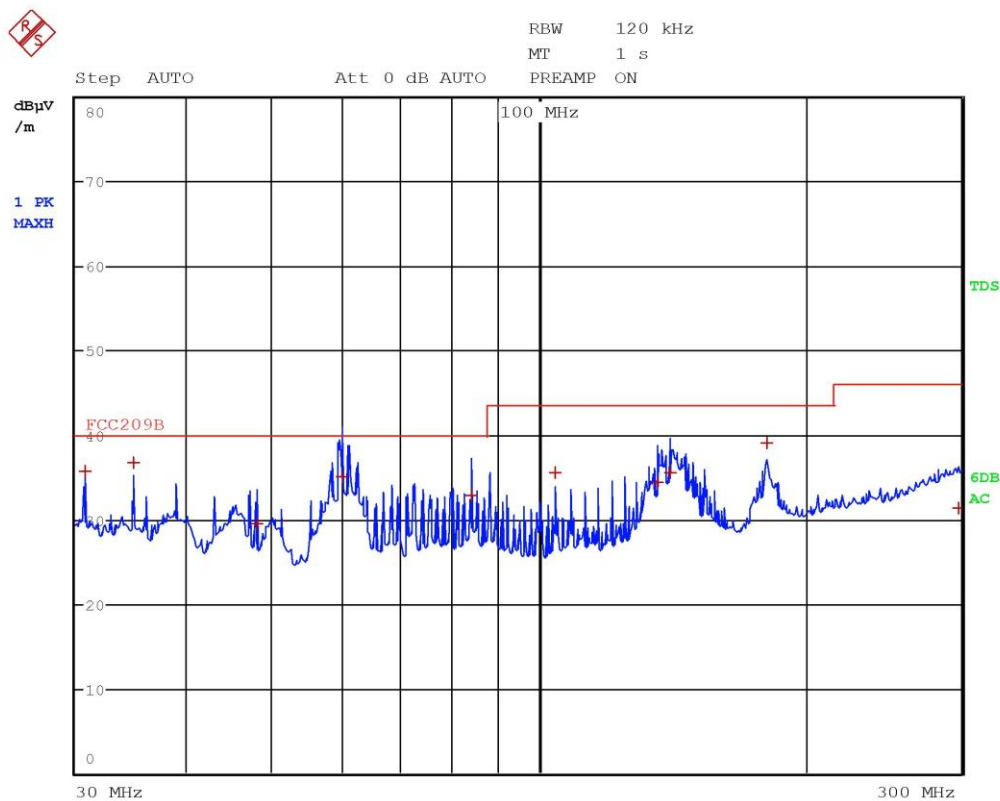


Gandini 20222507



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC109B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	30.72 MHz	26.38	-13.62
1 Quasi Peak	61.16 MHz	30.55	-9.44
1 Quasi Peak	83.96 MHz	26.07	-13.92
1 Quasi Peak	104.44 MHz	30.76	-12.75
1 Quasi Peak	116.72 MHz	31.80	-11.72
1 Quasi Peak	133.12 MHz	30.82	-12.69
1 Quasi Peak	145.4 MHz	29.51	-14.00
1 Quasi Peak	223.24 MHz	31.72	-14.29
1 Quasi Peak	285.48 MHz	31.41	-14.60

Gandini 20222507

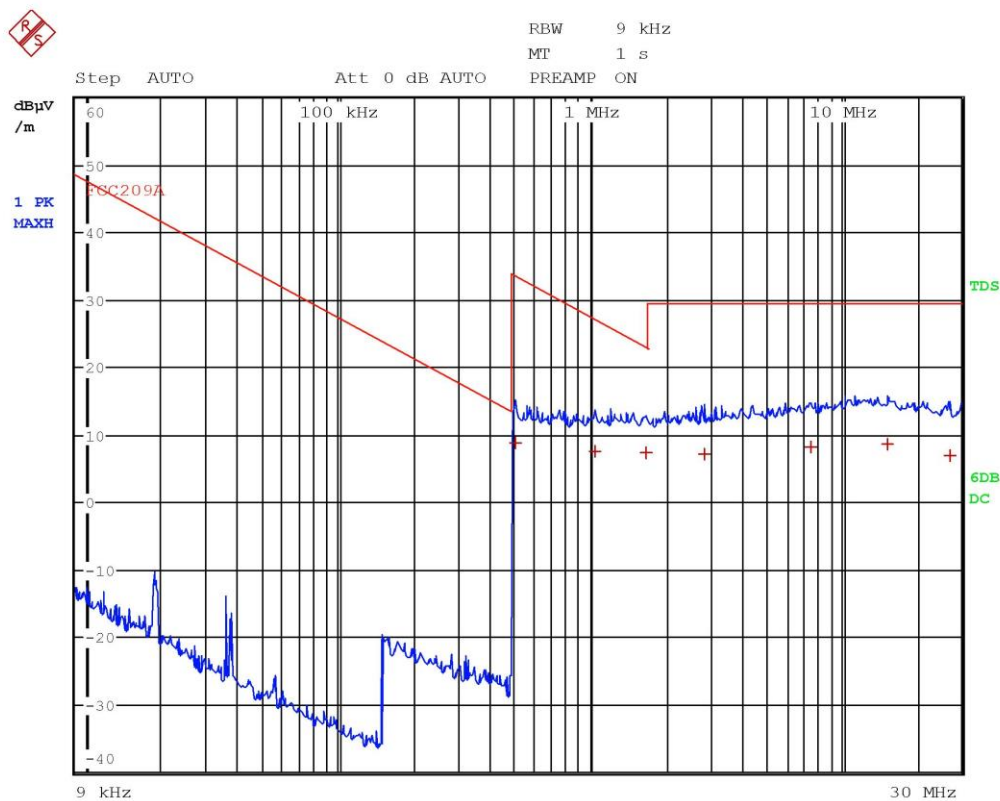


Gandini 20222508



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL, dBμV/m	DELTA LIMIT dB
1 Quasi Peak	30.72 MHz	35.73	-4.26
1 Quasi Peak	34.8 MHz	36.72	-3.27
1 Quasi Peak	48 MHz	29.46	-10.53
1 Quasi Peak	60 MHz	35.01	-4.99
1 Quasi Peak	84 MHz	32.80	-7.19
1 Quasi Peak	104.44 MHz	35.61	-7.90
1 Quasi Peak	136.28 MHz	34.32	-9.19
1 Quasi Peak	140.8 MHz	35.48	-8.03
1 Quasi Peak	180.6 MHz	39.00	-4.51
1 Quasi Peak	297.92 MHz	31.37	-14.64

Gandini 20222508

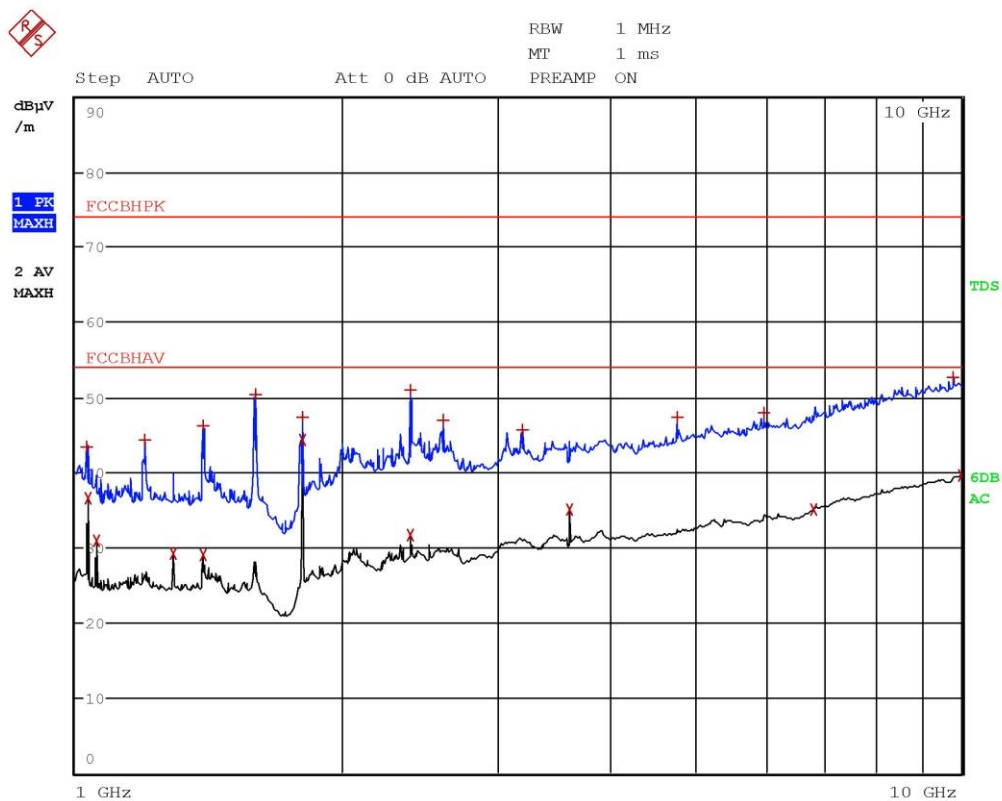


Gandini 20222509



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209A		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	502 kHz	8.88	-24.70
1 Quasi Peak	1.042 MHz	7.50	-19.74
1 Quasi Peak	1.674 MHz	7.29	-15.83
1 Quasi Peak	2.846 MHz	7.21	-22.32
1 Quasi Peak	7.546 MHz	8.26	-21.27
1 Quasi Peak	15.294 MHz	8.70	-20.83
1 Quasi Peak	27.162 MHz	6.94	-22.59

Gandini 20222509



Gandini 20222531



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL, dBμV/m	DELTA LIMIT dB
1 Max Peak	1.0312 GHz	43.40	-30.58
2 Average	1.0316 GHz	36.63	-17.34
2 Average	1.0548 GHz	30.99	-22.98
1 Max Peak	1.1996 GHz	44.40	-29.58
2 Average	1.2892 GHz	29.15	-24.82
1 Max Peak	1.3936 GHz	46.19	-27.78
2 Average	1.3956 GHz	28.93	-25.04
1 Max Peak	1.5964 GHz	50.37	-23.60
2 Average	1.8056 GHz	44.38	-9.59
1 Max Peak	1.8056 GHz	47.36	-26.61
1 Max Peak	2.3908 GHz	50.98	-22.99
2 Average	2.392 GHz	31.74	-22.23
1 Max Peak	2.598 GHz	47.07	-26.91
1 Max Peak	3.1944 GHz	45.57	-28.40
2 Average	3.6112 GHz	35.10	-18.87
1 Max Peak	4.7852 GHz	47.27	-26.70
1 Max Peak	5.9948 GHz	47.89	-26.08
2 Average	6.8052 GHz	35.05	-18.92
1 Max Peak	9.7868 GHz	52.71	-21.26
2 Average	9.9836 GHz	39.65	-14.32

Gandini 20222531