



TEST REPORT nr. R17197201

Federal Communication Commission (FCC)

Test item

Description.....: WIRELESS FLAT SWITCHES
Trademark.....: CARLO GAVAZZI
Model/Type: SHE5XWLS4WFT
FCC ID: SNJLS4

Test Specification

Standard.....: FCC Rules & Regulations, Title 47:2017
Part 15 paragraph(s): 203, 207, 209 and 247

Client's name: CARLO GAVAZZI CONTROLS S.p.A.
Address: Via Safforze, 8 – 32100 Belluno (BL) – ITALY

Manufacturer's name : Same as client
Address: --

Report

Tested by: M. Segalla
Approved by: R. Beghetto – Laboratory Manager
Date of issue: 03.05.19
Contents.....: 84 pages

M. Segalla
.....
R. Beghetto
.....

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The test results presented in this report relate only to the item tested.



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1. Summary

Standard:

FCC Rules & Regulations, Title 47:2017
Part 15 paragraph(s): 203, 207, 209 and 247

Test specifications	Environmental Phenomena	Tests sequence	Result
Part 15.203	Antenna requirements	1	Complies
Part 15.207	Conducted emissions	--	N.A. (+)
Part 15.209	Emissions in restricted frequency bands and in unrestricted frequency bands	2	Complies
Part 15.247 (a) (2)	DTS bandwidth	3	Complies
Part 15.247 (d)	Band edge	4	Complies
Part 15.209 and 15.247	Fundamental emission output power	5	Complies
Part 15.209 and 15.247	Maximum power spectral density level in the fundamental emission	6	Complies
Part 15.209	Spurious emission	7	Complies

(+) Device which only employ battery supply

The Test Report was given to the Client representatives for necessary documentation of ratification of the tested equipment and it is valid for the FCC certification

2. Description of Equipment under test (EUT)

EUT description: WIRELESS FLAT SWITCHES

Power supply: 3 Vdc from battery

Software release tested into equipment FW044S016 Engineering version for continuous transmission

Type of equipment: ☒ Transmitter Unit
☒ Receiver Unit

Type of station: ☒ Fixed station
☐ Portable station
☐ Mobile station

Frequency band: F_L: 2405 MHz F_M: 2455 MHz F_H: 2475 MHz

2.1 Test Site

Company : CMC Centro Misure Compatibilità S.r.l.
Address : Via della Fisica, 20
36016 Thiene (VI) – ITALY
Test site facility's FCC registration number : 182474

3. Testing and sampling

Date of receipt of test item	: 29.09.17
Testing start date	: 11.06.18
Testing end date	: 26.03.19
Samples tested nr.....	: 3
	Kit #1 for tests on lowest channel
	Kit #2 for tests on medium channel
	Kit #3 for tests on highest channel
Sampling procedure.	: Equipment used for testing was picked up by the manufacturer, at the end of the production process with random criterion
Internal identification	: adhesive label with the product number P171129



4. Operative conditions

EUT exercising : EUT in continuous transmission at maximum power.
The test lab had no ability to change the power setting.

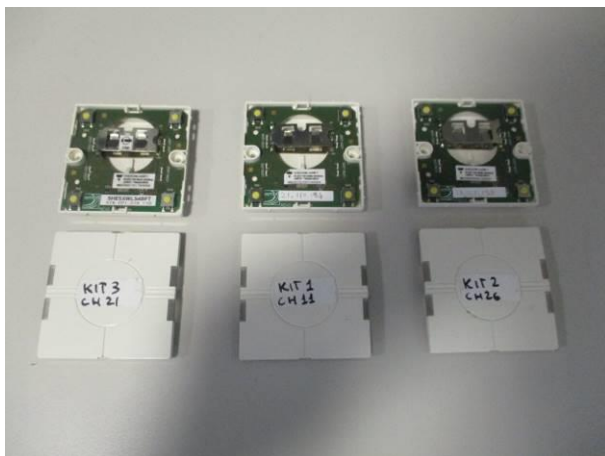
No modifications have been made on tested samples





5. Photograph(s) of EUT

5.1 Photograph(s) of EUT





6. Equipment list

<i>Id. number</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Description</i>	<i>Serial number</i>	<i>Last calibration</i>	<i>Due date calibration</i>
CMC S108	EMCO	3115	Horn Antenna	9811-5622	June '16	June '19
CMC S127	Schaffner	HLA6120	Loop Antenna	1191	November '15	November '18
CMC S136	Schwarzbeck	VULB 9163	Broadband Antenna	9163-205	June '16	June '19
CMC S164	Rohde & Schwarz	ESU26	EMC interference receiver	100052	January '19	January '20
CMC S290	Schwarzbeck	BBHA 9170	Horn Antenna (15-40 GHz)	733	July '16	July '19
CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz	104059	November '16	November '19
20 dB attenuator					Calibrated before the tests	



7. Measurement uncertainty

Test	Test Setup	Expanded uncertainty	Note
Conducted emission CISPR 16 LISN 50uH 0,009-0,0150MHz	PE001_01	3,4 dB	1
Conducted emission CISPR 16 LISN 50uH 0,150-30,0MHz	PE001_01	3,0 dB	1
Conducted emission CISPR 16 Voltage Probe 0,15-30MHz	PE001_02	2,9 dB	1
Conducted emission CISPR 16 Current Probe 0,15-30MHz	PE001_03	2,6 dB	1
Conducted emission CISPR 16 ISN 0,15-30MHz	PE001_04	4,7 dB	1
Clic CISPR 16 LISN 50uH 0,150-30,0MHz	PE001_05	3,1 dB	1
Disturbance Power 30-300 MHz	PE002_01	3,6 dB	1
Radiated Emission LAS 0,15-30MHz	PE003_01	2,0 dB	1
Radiated Emission CISPR 16 Loop Ant. 0,15-30MHz	PE004_01	4,0 dB	1
Radiated Emission CISPR 16 Bicon. Ant. 30-300MHz	PE004_02	3,9 dB	1
Radiated Emission CISPR 16 LogP. Ant. 300-1000MHz	PE004_03	3,8 dB	1
Radiated Emission CISPR 16 Horn Ant. 1-18GHz	PE004_04	4,2 dB	1
Human Exposure to electromagnetic fields	PE005_01	23,6 %	1
Harmonic current emissions test	PE006_01	10 mA + 2,6 %	1
Voltage fluctuation and flicker test	PE007_01	4,8 %	1
Radiated Immunity 80MHz-6GHz	PE102_XX	2,1 dB 0,82 V/m a 3V/m	1
Conducted Immunity 0,15-230MHz	PE105_XX	1,2 dB 0,44 V a 3V	1
AC Magnetic field	PE106_01	1,55 % 0,15 A/m a 10A/m	1
Pulse Magnetic field	PE107_01	6,25 % 18,7 A/m a 300A/m	1
Dumped Magnetic field	PE108_01	6,25 % 1,87 A/m a 30A/m	1
Common mode conducted immunity	PE112_01	2,21 % 0,22 V a 10V	1



Test	Test Setup	Expanded uncertainty	Note
Power/Spurious 9kHz-30MHz	PR001_01	4,0 dB	1
Power/Spurious ERP 30-1000MHz d=10m	PR001_02+03	4,7 dB	1
Misura della potenza EIRP 1-18GHz d=3m	PR001_04	4,7 dB	1
Misura della potenza EIRP 18-40GHz d=3m	PR001_05	5,4 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
Rev_19_01 date 14/01/2019			

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



8. Reference documents

Reference no.	Description
FCC Rules and Regulation Title 47 part 15:2017	--
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
KDB 558074 D01 15.247 Meas Guidance v05r01	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
KDB 174176 D01 Line Conducted FAQ v01r01	AC power-line conducted emissions – Frequently Asked Questions
Internal Procedure PM001 rev. 3.0 (Quality Manual)	Measure Procedure
Internal procedure INC_M rev. 9.1 (Quality Manual)	Measurement uncertainty calculation



9. Deviation from test specification

None

10. Test case verdicts

Test case does not apply to the test object : N.A.

Test item does meet the requirement : Complies

Test item does not meet the requirement : Does not comply

Test not performed : N.E.

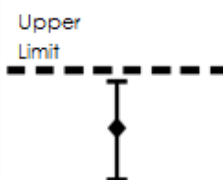
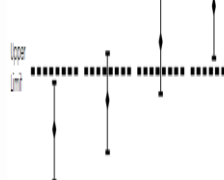
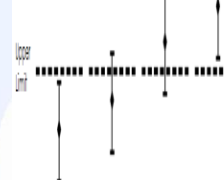
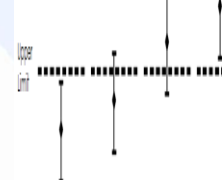


11. Results

In this clause tests results are reported.

Measurement uncertainty is in accordance with document CMC INC_M rev. 9.1.

Judgement of compliance:

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

In agreement with ILAC-G8: 03/2009 Guidelines on the Reporting of Compliance with Specification.



11.1 Antenna requirements

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.203
- Internal procedure PM001
- See clause 4 of this test report
- Test date: June 11th, 2018
- Technician: M. Segalla

Test configuration

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

--
Measurement uncertainty: See clause 7 of this test report

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, or § 15.221. 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

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
23	100	42

Manufacturer declaration

Antenna Type	External R.F. power amplifier	Gain	Remarks
Integrated antenna	Not Present	-2,5 dBi	--

Result: The requirements are met



11.2 Emissions in restricted frequency bands and in unrestricted frequency bands

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part. 15.209
- KDB 558074 D01 DTS Meas Guidance v05r01 cl. 8.6
- ANSI C63.10 cl. 11.12.1
- Internal procedure PM001
- See clause 4 of this test report
- Test date: June 11th, 2018
- Technician: M. Segalla

Test configuration

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S127, CMC S136, CMC S164,
CMC S290
Measurement uncertainty: See clause 7 of this
test report

Test specification

Port: Enclosure
Frequency range: 0,009 MHz – 26000 MHz
Antenna polarization: Horizontal (H) – Vertical (V)
EUT height about the floor:
80 cm for frequencies ≤ 1000 MHz
150 cm for frequencies > 1000 MHz
EUT – Antenna distance:
10 m for frequencies ≤ 1000 MHz
3 m for frequencies > 1000 MHz

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	100	42

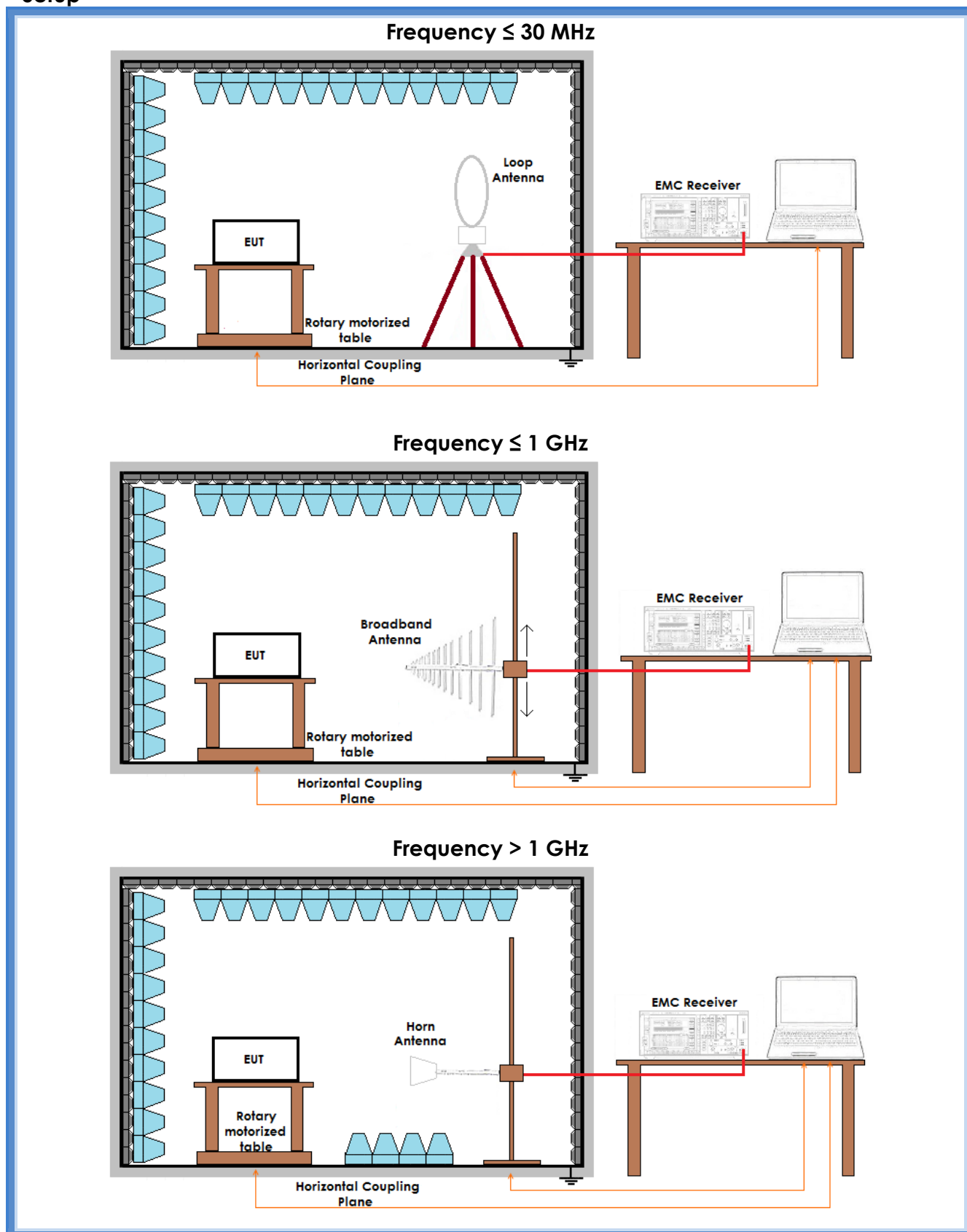


Acceptance limits

Frequency range (MHz)	Test distance (m)	Limits [dB(μV/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	
Above 960	3	53,9	
	Test distance (m)	Linear average detector [dB(μV/m)]	Peak detector [dB(μV/m)]
Above 1000	3	53,9	73,9

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, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. The results have been extrapolated to the specified distance using an extrapolation factor

Setup





Result

Polarization	Frequency Range (MHz)	Graphs	Remarks	Result
V	1000 – 4000	G17197201	Lowest channel	Complies
H	1000 – 4000	G17197202	Lowest channel	Complies
H	1000 – 4000	G17197203	Medium channel	Complies
V	1000 – 4000	G17197204	Medium channel	Complies
V	1000 – 4000	G17197205	Highest channel	Complies
H	1000 – 4000	G17197206	Highest channel	Complies
H	4000 – 10000	G17197207	Lowest channel	Complies
V	4000 – 10000	G17197208	Lowest channel	Complies
V	4000 – 10000	G17197209	Medium channel	Complies
H	4000 – 10000	G17197210	Medium channel	Complies
H	4000 – 10000	G17197211	Highest channel	Complies
V	4000 – 10000	G17197212	Highest channel	Complies
V	10000 – 18000	G17197213	Worst case	Complies
H	10000 – 18000	G17197214	Worst case	Complies
H	18000 – 26000	G17197215	Worst case	Complies
V	18000 – 26000	G17197216	Worst case	Complies
V	30 – 300	G17197217	Worst case	Complies
H	30 – 300	G17197218	Worst case	Complies
H	300 – 1000	G17197219	Worst case	Complies
V	300 – 1000	G17197220	Worst case	Complies
Loop	0,009 – 30	G17197221	Worst case	Complies

Remarks: *: these test was performed at a site other than an OATS, adequate comparison measurements have been made against an OATS. The semi-anechoic chamber results are generally slightly higher than OATS. This mean that if the measurement passes in the semi-anechoic chamber, it will pass with a higher margin on an open field test site. 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. Limits have been corrected with conversion factor $\text{Limits} + 40\log(\text{test distance}/10)$ 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. Limits have been corrected with conversion factor $\text{Limits} + 20\log(3/10)$ based on the measuring distance provided by the standard.

Peaks above the limits are caused by the nominal transmitting frequencies.

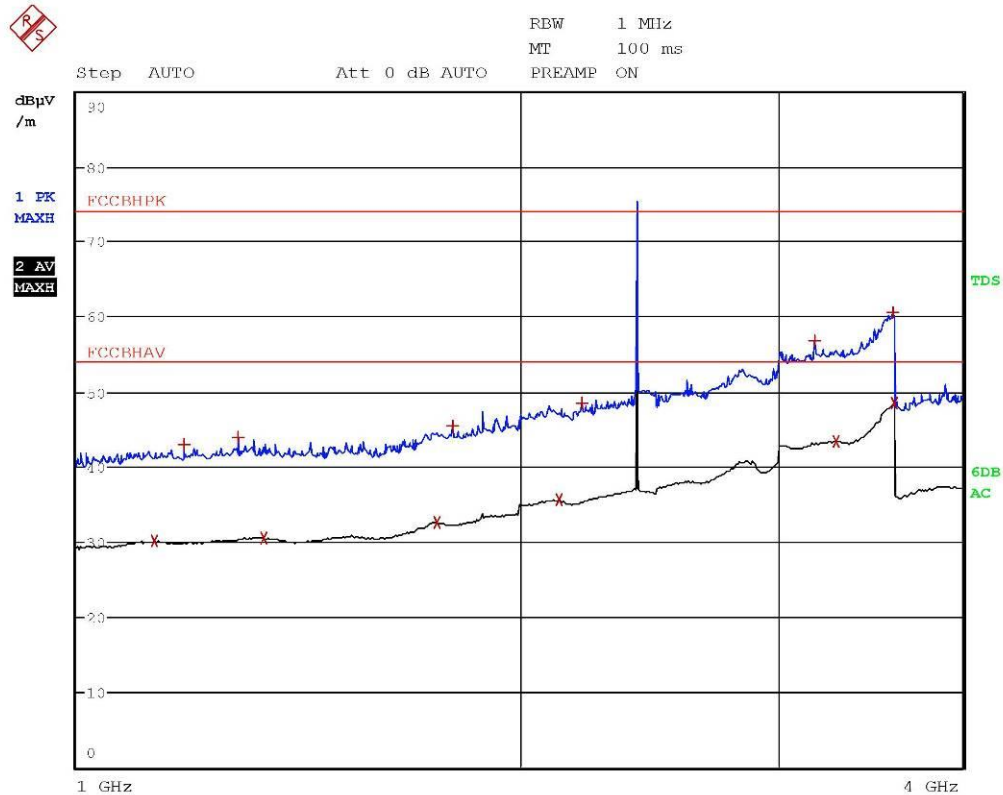
Graphs Legend

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

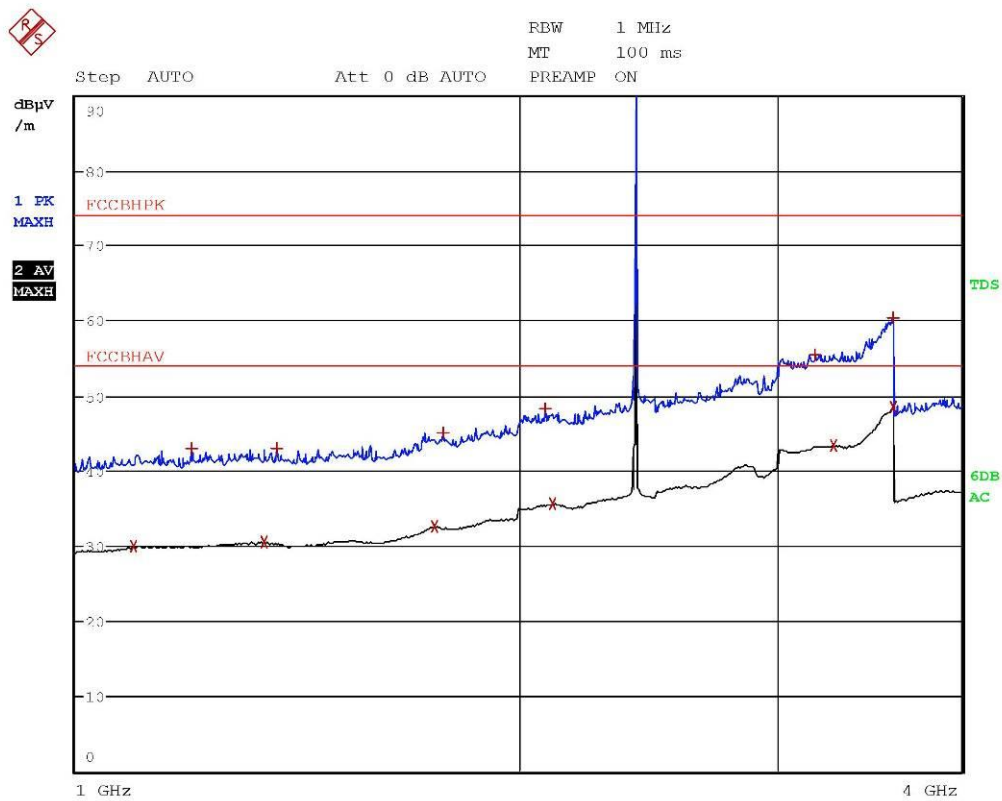


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	1.1284 GHz	30.12	-23.85
1 Max Peak	1.184 GHz	42.94	-31.03
1 Max Peak	1.2872 GHz	43.96	-30.02
2 Average	1.3408 GHz	30.62	-23.35
2 Average	1.7564 GHz	32.63	-21.34
1 Max Peak	1.8 GHz	45.39	-28.58
2 Average	2.1256 GHz	35.59	-18.38
1 Max Peak	2.2068 GHz	48.51	-25.46
1 Max Peak	3.1747 GHz	56.86	-17.11
2 Average	3.2607 GHz	43.37	-10.60
1 Max Peak	3.5851 GHz	60.68	-13.29
2 Average	3.5967 GHz	48.56	-5.41

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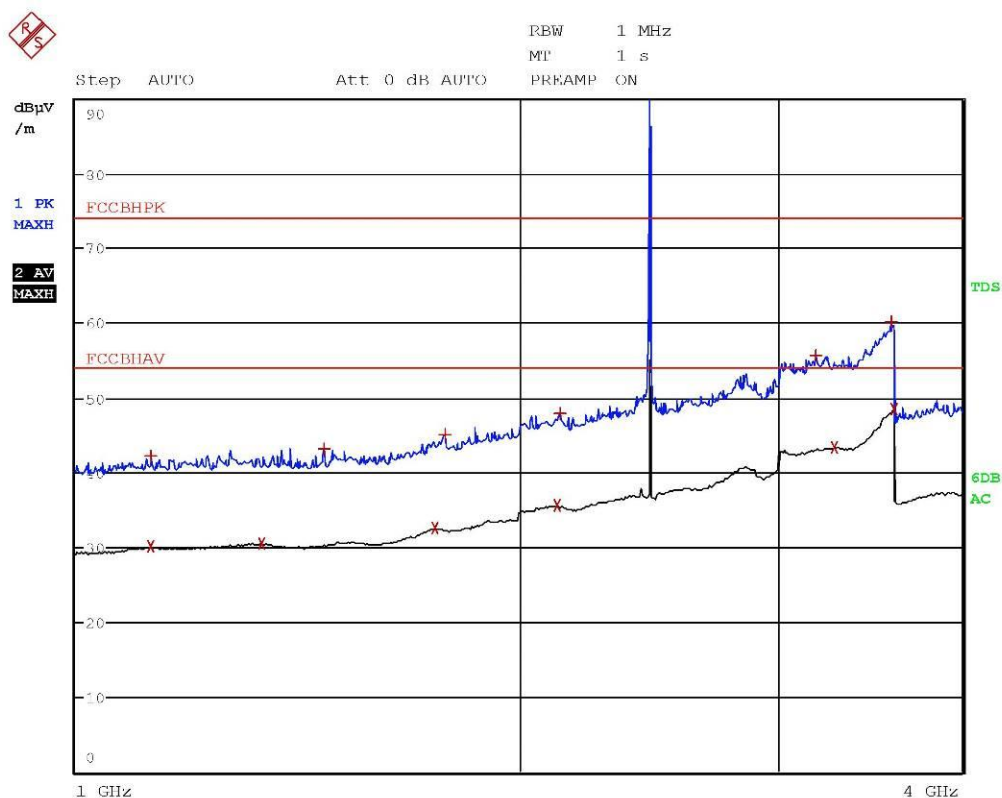


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	1.0944 GHz	30.06	-23.91
1 Max Peak	1.1984 GHz	43.06	-30.91
2 Average	1.3424 GHz	30.55	-23.42
1 Max Peak	1.3692 GHz	43.01	-30.97
2 Average	1.7556 GHz	32.54	-21.43
1 Max Peak	1.7768 GHz	45.09	-28.88
1 Max Peak	2.0848 GHz	48.22	-25.75
2 Average	2.1072 GHz	35.61	-18.36
1 Max Peak	3.1787 GHz	55.55	-18.42
2 Average	3.2723 GHz	43.39	-10.58
2 Average	3.5983 GHz	48.52	-5.45
1 Max Peak	3.5987 GHz	60.34	-13.63

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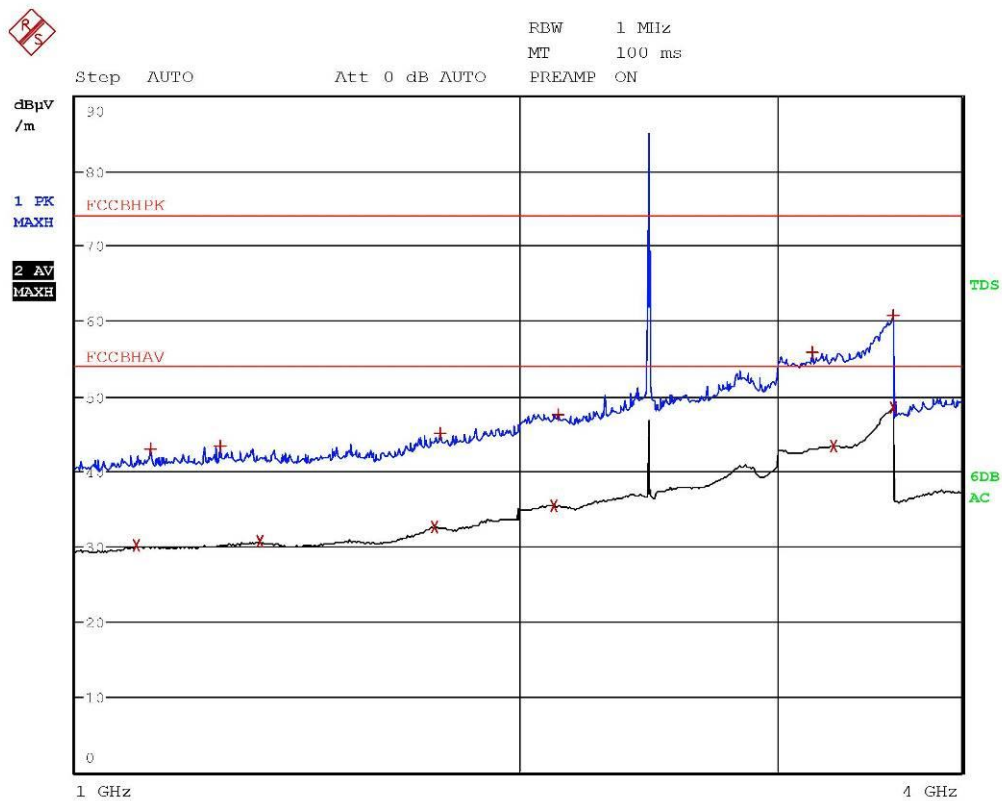


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	1.124 GHz	42.26	-31.71
2 Average	1.1248 GHz	30.07	-23.90
2 Average	1.3372 GHz	30.53	-23.44
1 Max Peak	1.4752 GHz	43.21	-30.77
2 Average	1.7524 GHz	32.54	-21.43
1 Max Peak	1.7824 GHz	45.17	-28.80
2 Average	2.124 GHz	35.64	-18.33
1 Max Peak	2.1348 GHz	47.88	-26.09
1 Max Peak	3.1811 GHz	55.68	-18.29
2 Average	3.2779 GHz	43.33	-10.64
1 Max Peak	3.5759 GHz	60.28	-13.69
2 Average	3.5991 GHz	48.43	-5.54

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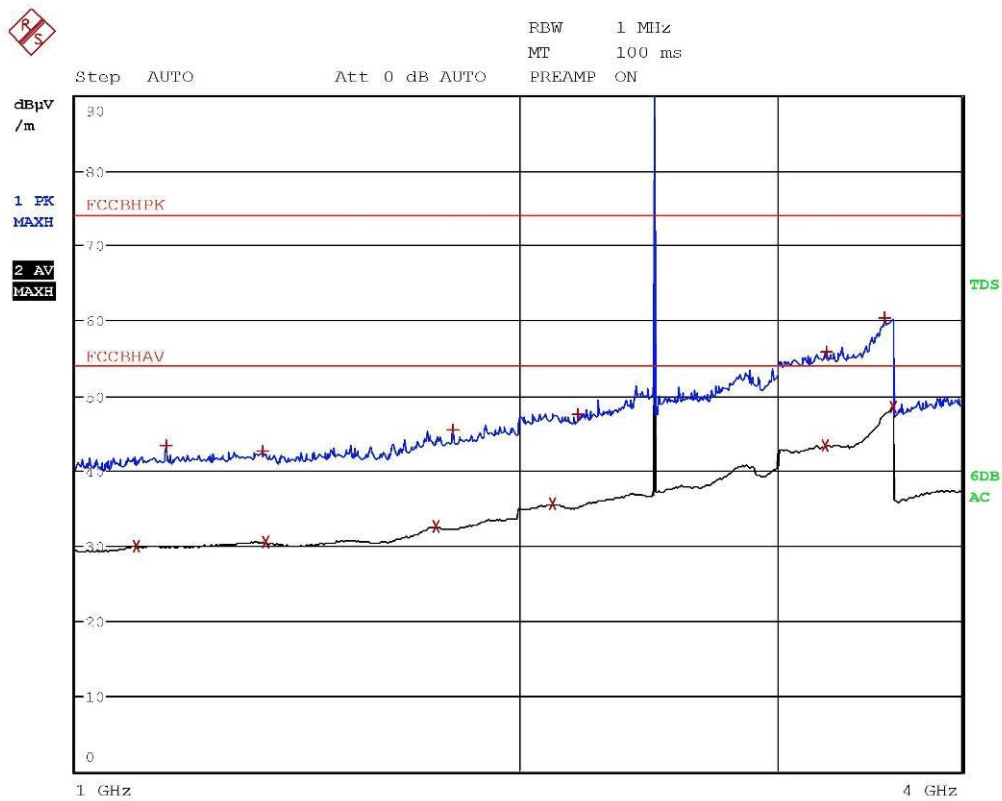


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	1.1 GHz	30.07	-23.90
1 Max Peak	1.1244 GHz	42.99	-30.98
1 Max Peak	1.2532 GHz	43.34	-30.64
2 Average	1.3344 GHz	30.64	-23.34
2 Average	1.754 GHz	32.59	-21.38
1 Max Peak	1.77 GHz	45.13	-28.84
2 Average	2.1128 GHz	35.53	-18.44
1 Max Peak	2.1292 GHz	47.56	-26.41
1 Max Peak	3.1695 GHz	55.89	-18.08
2 Average	3.2735 GHz	43.44	-10.53
1 Max Peak	3.5987 GHz	60.82	-13.15
2 Average	3.5999 GHz	48.56	-5.41

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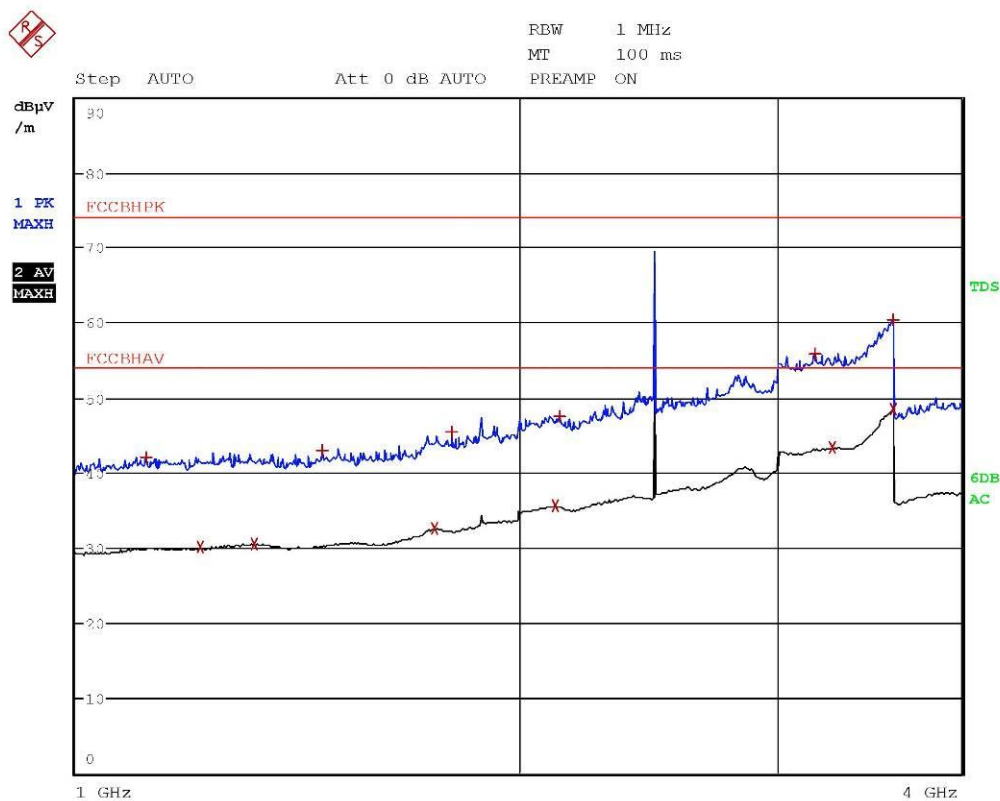


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	1.0992 GHz	30.03	-23.94
1 Max Peak	1.1516 GHz	43.31	-30.66
1 Max Peak	1.3408 GHz	42.55	-31.42
2 Average	1.3476 GHz	30.51	-23.46
2 Average	1.7572 GHz	32.55	-21.42
1 Max Peak	1.8056 GHz	45.47	-28.50
2 Average	2.1088 GHz	35.55	-18.42
1 Max Peak	2.1928 GHz	47.60	-26.37
2 Average	3.2343 GHz	43.39	-10.58
1 Max Peak	3.2375 GHz	55.95	-18.02
1 Max Peak	3.5443 GHz	60.46	-13.52
2 Average	3.5995 GHz	48.55	-5.42

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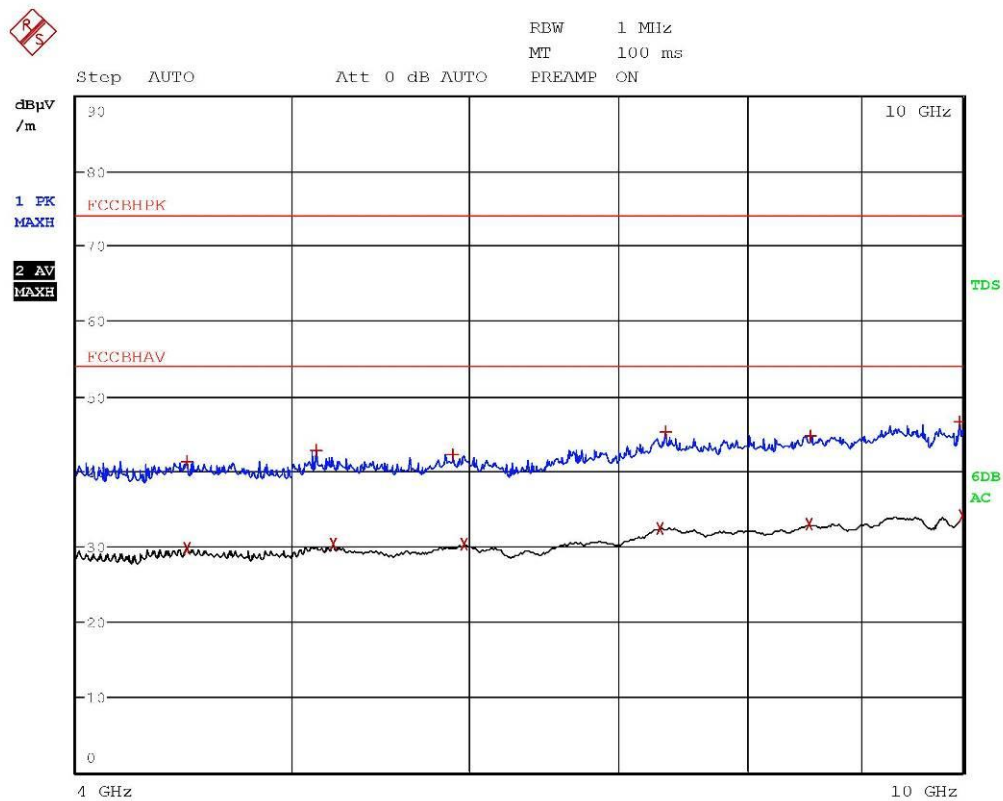


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Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	1.118 GHz	42.09	-31.88
2 Average	1.216 GHz	30.08	-23.89
2 Average	1.3212 GHz	30.55	-23.42
1 Max Peak	1.47 GHz	43.05	-30.92
2 Average	1.7548 GHz	32.56	-21.41
1 Max Peak	1.8 GHz	45.56	-28.41
2 Average	2.1176 GHz	35.60	-18.37
1 Max Peak	2.1316 GHz	47.58	-26.39
1 Max Peak	3.1787 GHz	55.83	-18.14
2 Average	3.2679 GHz	43.30	-10.67
1 Max Peak	3.5939 GHz	60.46	-13.51
2 Average	3.5991 GHz	48.57	-5.40

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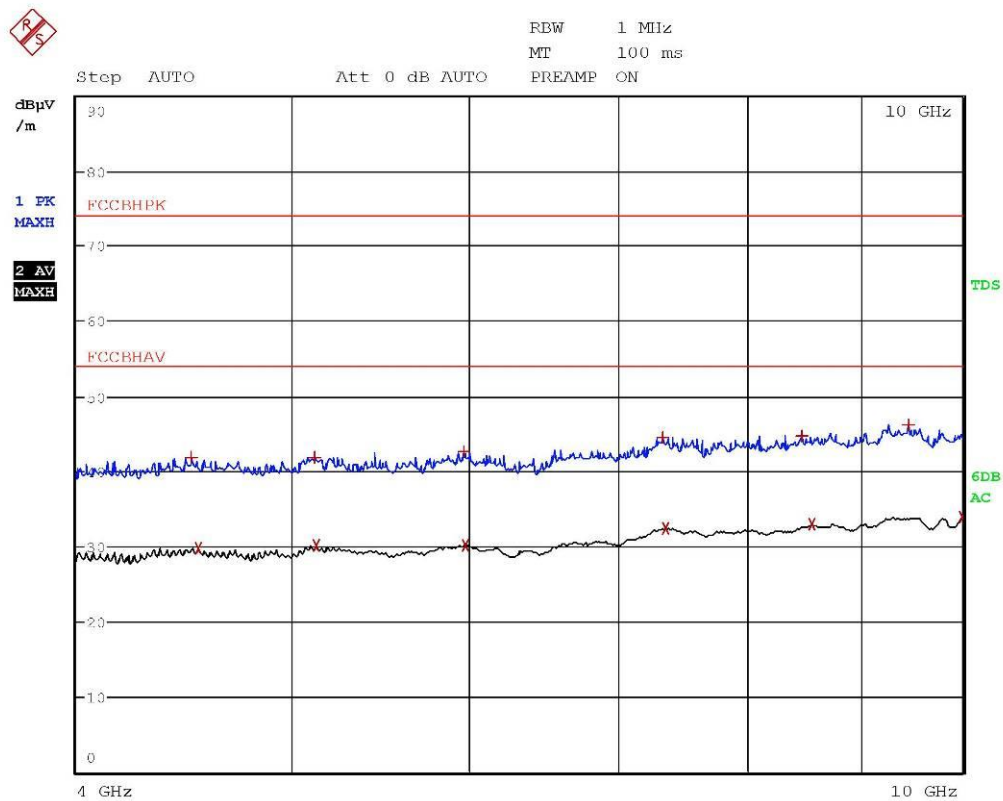


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EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	4.4844 GHz	41.34	-32.63
2 Average	4.4844 GHz	29.78	-24.19
1 Max Peak	5.1256 GHz	42.86	-31.11
2 Average	5.2176 GHz	30.32	-23.65
1 Max Peak	5.8996 GHz	42.28	-31.69
2 Average	5.9736 GHz	30.34	-23.63
2 Average	7.3108 GHz	32.39	-21.58
1 Max Peak	7.358 GHz	45.24	-28.74
2 Average	8.5272 GHz	32.97	-21.00
1 Max Peak	8.54 GHz	44.75	-29.22
1 Max Peak	9.9728 GHz	46.57	-27.40
2 Average	9.9972 GHz	34.04	-19.94

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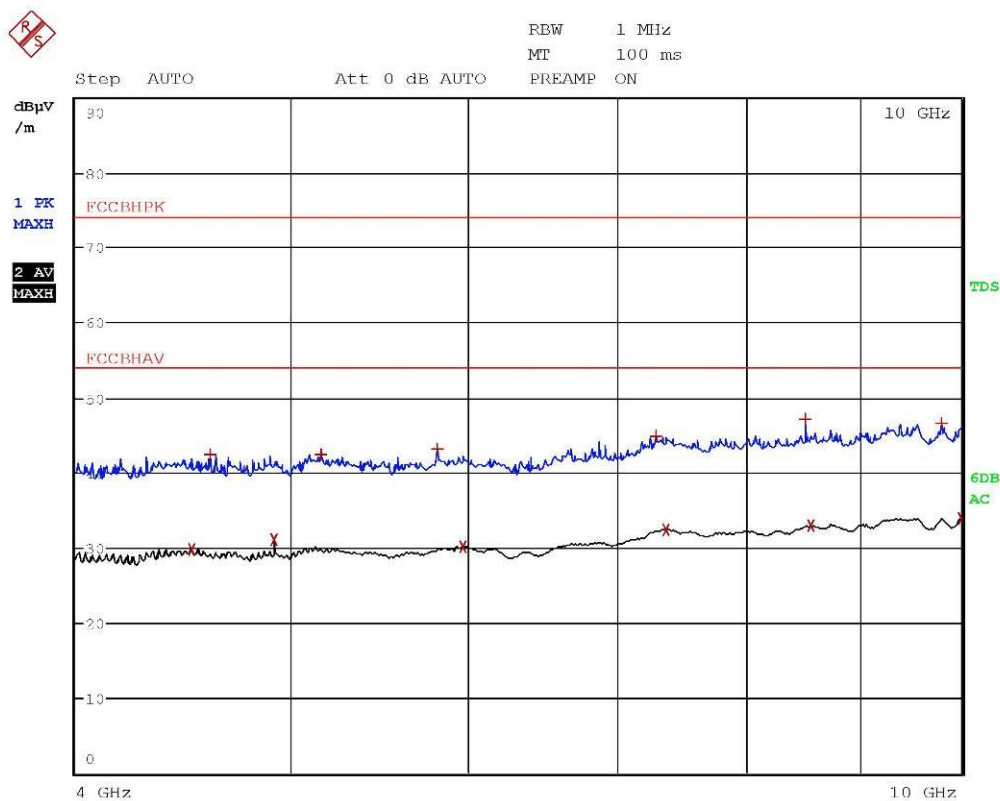


Segalla 17197208



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	4.5076 GHz	41.79	-32.18
2 Average	4.5372 GHz	29.72	-24.25
1 Max Peak	5.1224 GHz	41.94	-32.04
2 Average	5.1284 GHz	30.17	-23.80
1 Max Peak	5.9696 GHz	42.57	-31.40
2 Average	5.978 GHz	30.24	-23.73
1 Max Peak	7.338 GHz	44.61	-29.36
2 Average	7.3528 GHz	32.46	-21.51
1 Max Peak	8.4752 GHz	44.81	-29.16
2 Average	8.56 GHz	32.91	-21.06
1 Max Peak	9.458 GHz	46.20	-27.77
2 Average	9.9992 GHz	33.92	-20.05

Segalla 17197208

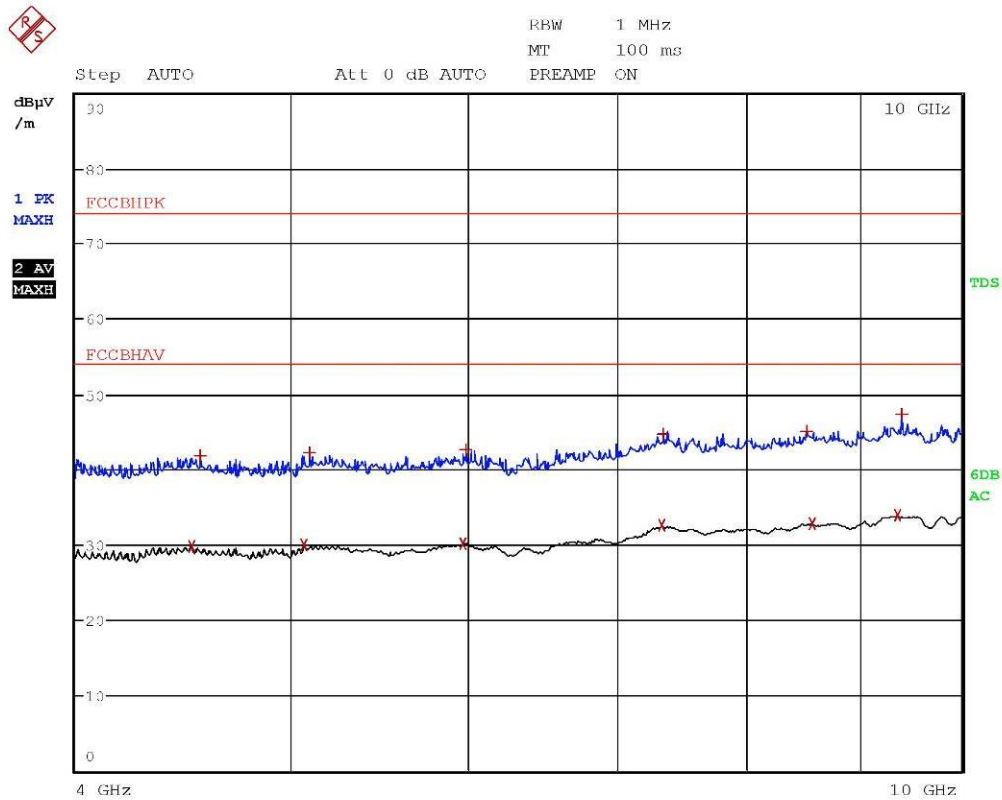


Segalla 17197209



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	4.5084 GHz	29.81	-24.16
1 Max Peak	4.5964 GHz	42.37	-31.60
2 Average	4.9112 GHz	31.16	-22.82
1 Max Peak	5.1548 GHz	42.53	-31.44
1 Max Peak	5.818 GHz	43.16	-30.81
2 Average	5.9708 GHz	30.24	-23.73
1 Max Peak	7.2908 GHz	44.82	-29.15
2 Average	7.3628 GHz	32.46	-21.51
1 Max Peak	8.5052 GHz	47.10	-26.87
2 Average	8.5604 GHz	32.93	-21.04
1 Max Peak	9.8028 GHz	46.60	-27.37
2 Average	9.9984 GHz	34.01	-19.96

Segalla 17197209

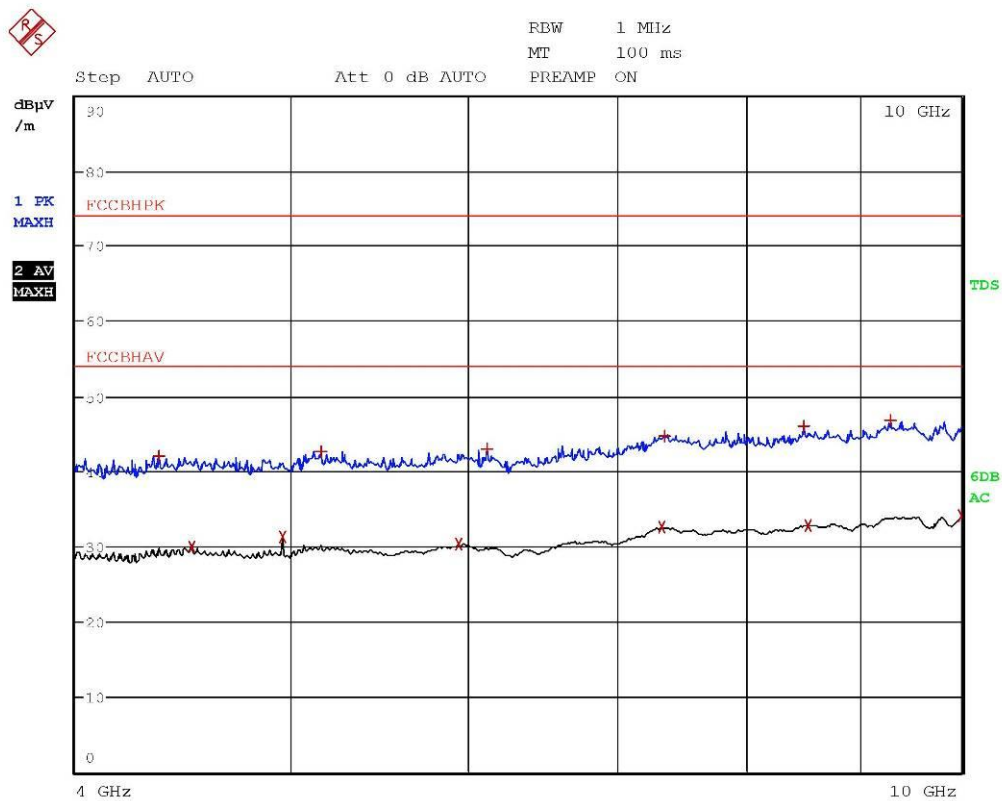


Segalla 17197210



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
2 Average	4.5128 GHz	29.73	-24.24
1 Max Peak	4.552 GHz	41.81	-32.16
2 Average	5.0684 GHz	30.03	-23.94
1 Max Peak	5.0948 GHz	42.16	-31.81
2 Average	5.9736 GHz	30.24	-23.73
1 Max Peak	5.9868 GHz	42.67	-31.30
2 Average	7.3336 GHz	32.53	-21.44
1 Max Peak	7.3496 GHz	44.63	-29.34
1 Max Peak	8.5188 GHz	45.02	-28.95
2 Average	8.5652 GHz	32.81	-21.16
2 Average	9.3612 GHz	33.86	-20.11
1 Max Peak	9.3968 GHz	47.38	-26.59

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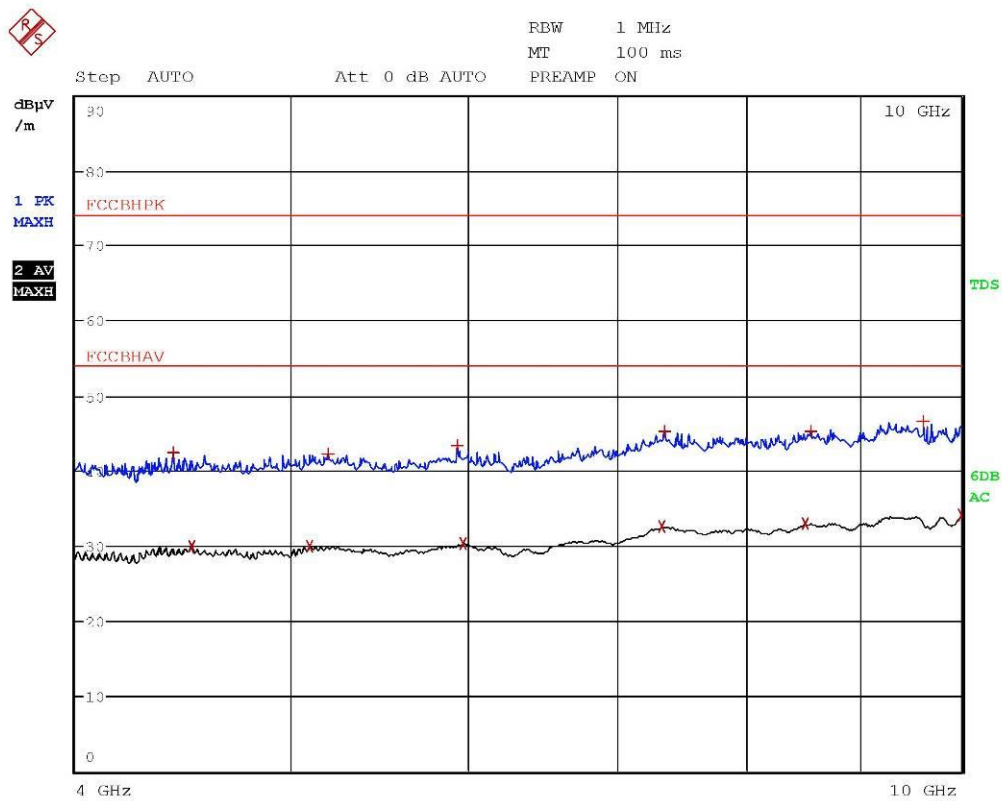


Segalla 17197211



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	4.3628 GHz	42.13	-31.84
2 Average	4.5092 GHz	29.93	-24.04
2 Average	4.9592 GHz	31.38	-22.59
1 Max Peak	5.154 GHz	42.70	-31.28
2 Average	5.9428 GHz	30.41	-23.56
1 Max Peak	6.1192 GHz	43.00	-30.97
2 Average	7.3396 GHz	32.52	-21.45
1 Max Peak	7.3568 GHz	44.62	-29.35
1 Max Peak	8.5012 GHz	45.97	-28.00
2 Average	8.5384 GHz	32.88	-21.09
1 Max Peak	9.286 GHz	46.71	-27.26
2 Average	10 GHz	34.18	-19.79

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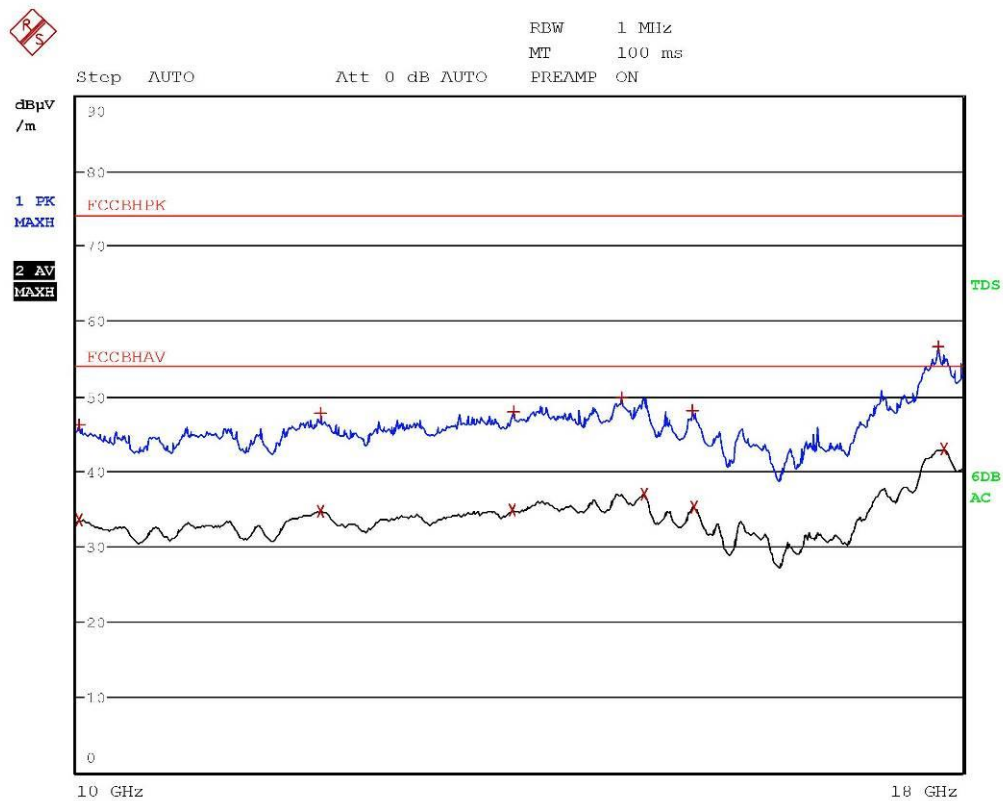


Segalla 17197212



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Max Peak	4.4252 GHz	42.51	-31.46
2 Average	4.5104 GHz	29.95	-24.02
2 Average	5.0944 GHz	30.02	-23.96
1 Max Peak	5.192 GHz	42.28	-31.69
1 Max Peak	5.9344 GHz	43.45	-30.52
2 Average	5.9764 GHz	30.39	-23.58
2 Average	7.3404 GHz	32.53	-21.45
1 Max Peak	7.36 GHz	45.31	-28.66
2 Average	8.5104 GHz	32.96	-21.01
1 Max Peak	8.554 GHz	45.27	-28.70
1 Max Peak	9.6076 GHz	46.63	-27.34
2 Average	9.9984 GHz	34.05	-19.92

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Segalla 17197213