



EMC TEST REPORT

Applicant:	OCTO Telematics S.p:A			
Address:	Via Lamaro 51 Rome RM 00173 Italy			
Manufacturer or Supplier:	Gosuncn Technology Group Co., I	_td.		
Address:	6F, 2819 KaiChuang Blvd., Science Guangdong, China.	ce Town, Huangpu District, Guangzhou City,		
Product:	ОВИ			
Brand Name:	осто			
Model Name:	AT41	AT41		
FCC ID:	2AHR8-AT41BT	2AHR8-AT41BT		
Date of tests:	Mar. 02, 2018 ~ Mar. 13, 2018			
The submitted sa following standar		been tested for according to the requirements of the		
 FCC Part 15, ANSI C63.4:2	Subpart B, Class B 2014			
CONCLUSION:	The submitted sample was found t	o COMPLY with the test requirement		
Issued by Alex Chen Approved by Sam Tung Engineer / Mobile Department Manager / Mobile Department				
Alex				
	Date: Mar. 14, 2018 I incorporates by reference, CPS Conditions of Service as posted a	Date: Mar. 14, 2018 I the date of issuance of this report at		

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TABLE OF CONTENTS

RELEASE CONTROL RECORD	. 3
1 GENERAL INFORMATION	. 4
1.1 GENERAL DESCRIPTION OF EUT	. 4
1.2 SUMMARY OF TEST RESULTS	
1.3 MEASUREMENT UNCERTAINTY	. 6
1.4 DESCRIPTION OF TEST MODES	. 7
1.5 DESCRIPTION OF SUPPORT UNITS	
2 EMISSION TEST	. 9
2.1 CONDUCTED EMISSION MEASUREMENT	. 9
2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT	. 9
2.1.2 TEST INSTRUMENTS	. 9
2.1.3 TEST PROCEDURES	10
2.1.4 DEVIATION FROM TEST STANDARD	10
2.1.5 TEST SETUP	11
2.1.6 EUT OPERATING CONDITIONS	11
2.1.7 TEST RESULTS	12
2.2 RADIATED EMISSION MEASUREMENT	
2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	14
2.2.2 TEST INSTRUMENTS	15
2.2.3 TEST PROCEDURE	
2.2.4 DEVIATION FROM TEST STANDARD	17
2.2.5 TEST SETUP	18
2.2.6 EUT OPERATING CONDITIONS	18
2.2.7 TEST RESULTS	19
3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FV180302W004	Original release	Mar. 14, 2018

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Page 3 of 23



1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

I.I GENERAL	DESCRIPTION OF EUT		
PRODUCT	OBU		
BRAND NAME	осто		
MODEL NAME	AT41		
NOMINAL VOLTAGE	DC 12V 3.7Vdc (Li-ion, batte	ery)	
BATTERY	Brand Name: GOSUNCN Model Name: Li3702T42P3h292833 Power Rating: DC 3.7V, 180mAh, Li-ion		
	BT_LE	BT-LE(GFSK) for DTS	
	Bluetooth	GFSK, π/4-DQPSK, 8DPSK	
MODULATION TYPE	GPS/ Glonass	C/A code	
MODULATION TIPE	GSM	GMSK	
	WCDMA	BPSK/QPSK	
	LTE	QPSK/16QAM	
	Bluetooth/BT_LE	2402MHz ~ 2480MHz	
	GPS	1575.42MHz	
	GLONASS	1602MHz	
OPERATING	GSM	824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR GSM 1900)	
FREQUENCY	WCDMA	1852.4MHz ~ 1907.6MHz (FOR WCDMA Band 2) 826.4MHz ~ 846.6MHz (FOR WCDMA Band 5)	
	LTE	1850.7MHz ~ 1909.3MHz (FOR LTE Band2) 1710.7MHz ~ 1754.3MHz (FOR LTE Band4) 824.7MHz ~ 848.3MHz (FOR LTE Band5) 699MHz ~ 716MHz (FOR LTE Band12)	
HW VERSION	AT41_MB_B		
SW VERSION	ME3631U1AV1.0B06		
I/O PORTS	Refer to user's manual		
CABLE SUPPLIED	N/A		
ACCESSORY DEVICES	Refer to note as below		



NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

Page 5 of 23



1.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B						
Standard Section	Test Item	Result	Remark			
	Conducted Test	PASS	Meets limits minimum passing margin is -16.65dB at 0.392000MHz.			
FCC Part 15, Subpart B, Class B ANSI C63.4:2014	B, Class B Radiated Emission Test (30MHz ~ 1GHz)		Meets Class B Limit Minimum passing margin is -4.3dB at 47.46MHz			
	Radiated Emission Test (Above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -12.58dB at 3670MHz			

1.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	+/-2.66dB
Dodiete de accionione	30MHz ~ 1GHz	+/-3.26dB
Radiated emissions	1GHz ~ 18GHz	+/-4.48dB



1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition				
	Radiated emission test				
1	GSM850 Idle+ Adapter+ BT Idle+ GPS Rx				
2	GSM1900 Idle+ Adapter+ BT Idle+ Glonass Rx				
3	WCDMA B2 Idle+ Adapter+ BT Idle+ GPS Rx				
4	WCDMA B5 Idle+ Adapter+ BT Idle+ Glonass Rx				
5	LTE B2 Idle+ Adapter+ BT Idle+ GPS Rx				
6	LTE B4 Idle+ Adapter+ BT Idle+ Glonass Rx				
7	LTE B5 Idle+ Adapter+ BT Idle+ GPS Rx				
8	LTE B12 Idle+ Adapter+ BT Idle+ Glonass Rx				
	Conducted emission test				
1	GSM850 Idle+ Adapter+ BT Idle+ GPS Rx				
2	GSM1900 Idle+ Adapter+ BT Idle+ Glonass Rx				
3	WCDMA B2 Idle+ Adapter+ BT Idle+ GPS Rx				
4	WCDMA B5 Idle+ Adapter+ BT Idle+ Glonass Rx				
5	LTE B2 Idle+ Adapter+ BT Idle+ GPS Rx				
6	LTE B4 Idle+ Adapter+ BT Idle+ Glonass Rx				
7	LTE B5 Idle+ Adapter+ BT Idle+ GPS Rx				
8	LTE B12 Idle+ Adapter+ BT Idle+ Glonass Rx				

NOTE:

- 1. For conducted emission test, test mode 1 was the worst case and only this mode was presented in this report.
- 2. For radiated emission test, test mode 1 was the worst case and only this mode was presented in this report



1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

FOR EMISSION TESTS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook	N/A	N/A	N/A	N/A
2	Printer	N/A	N/A	N/A	N/A
3	Adapter	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS		
1	N/A		
2	N/A		
3	N/A		



2 EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107)

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5 0.5 ~ 5 5 ~ 30	66 to 56 56 60	56 to 46 46 50

NOTE: 1. The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

2.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Jun. 28,17	Jun. 27,18
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Sep. 18,17	Sep. 17,18

NOTE: 1. The test was performed in CE shielded room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



2.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

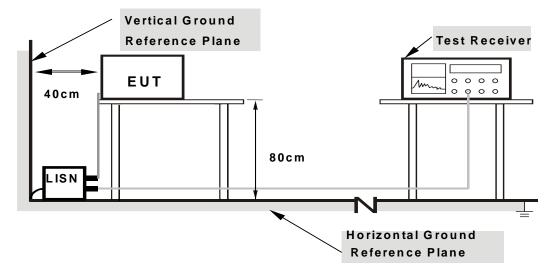
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

2.1.4 DEVIATION FROM TEST STANDARD

No deviation.



2.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

2.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.



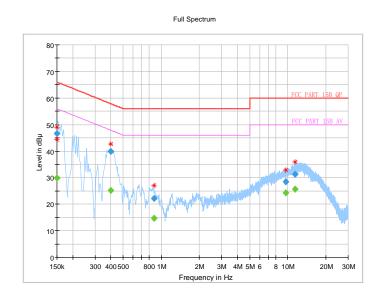
2.1.7 TEST RESULTS

TEST VOLTAGE	DC 12V Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	23deg. C, 52RH	TESTED BY	Jocan Guo

Frequency (MHz)	QuasiPeak (dB¦ÌV)	CAverage (dB¦ÌV)	Limit (dB¦ÌV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000		29.84	56.00	-26.16	L1	ON	9.6
0.150000	46.63		66.00	-19.37	L1	ON	9.6
0.400000		25.17	47.85	-22.68	L1	ON	9.7
0.400000	39.83		57.85	-18.02	L1	ON	9.7
0.876000		14.65	46.00	-31.35	L1	ON	9.7
0.876000	22.12		56.00	-33.88	L1	ON	9.7
9.676000		24.16	50.00	-25.84	L1	ON	9.9
9.676000	28.50		60.00	-31.50	L1	ON	9.9
11.408000		25.73	50.00	-24.27	L1	ON	9.9
11.408000	31.34		60.00	-28.66	L1	ON	9.9
0.150000		29.84	56.00	-26.16	L1	ON	9.6
0.150000	46.63		66.00	-19.37	L1	ON	9.6

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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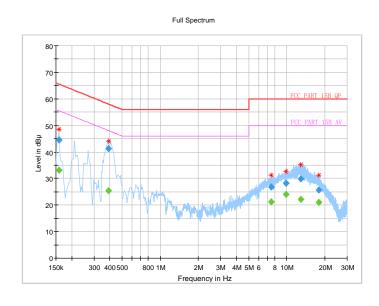


TEST VOLTAGE	DC 12V Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	23deg. C, 52RH	TESTED BY	Jocan Guo

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.158000		33.12	55.57	-22.45	N	ON	10.1
0.158000	44.58		65.57	-20.99	N	ON	10.1
0.392000		25.47	48.02	-22.55	N	ON	10.1
0.392000	41.37		58.02	-16.65	N	ON	10.1
7.560000		21.26	50.00	-28.74	N	ON	9.8
7.560000	26.71		60.00	-33.29	N	ON	9.8
9.880000		23.96	50.00	-26.04	N	ON	9.9
9.880000	28.14		60.00	-31.86	N	ON	9.9
12.860000		22.13	50.00	-27.87	N	ON	9.9
12.860000	29.85		60.00	-30.15	N	ON	9.9
17.964000		20.95	50.00	-29.05	N	ON	10.0
17.964000	25.57		60.00	-34.43	N	ON	10.0

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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2.2 RADIATED EMISSION MEASUREMENT

2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

	Radiated Emissions Limits at 10 meters (dBµV/m)									
Frequencies (MHz)	FCC 15B/ ICES-003, Class A	CISPR 22, Class A	CISPR 22, Class B							
30-88	39	29.5								
88-216	43.5	33.1	40	30						
216-230	46.4	35.6								
230-960	40.4	33.0	47	37						
960-1000	49.5	43.5	47	31						
1000-3000	Avg: 49.5	Avg: 43.5	Not defined	Not defined						
3000+	Peak: 69.5	Peak: 63.5	Not defined	Not defined						

	Radiated Emissions Limits at 3 meters (dBµV/m)									
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B						
30-88	49.5	40								
88-216	54	43.5	50.5	40.5						
216-230	56.9	46								
230-960	56.9	40	57.5	47.5						
960-1000	60	54	57.5	47.5						
1000-3000			Avg: 56	Avg: 50						
	Avg: 60	Avg: 54	Peak: 76	Peak: 70						
3000+	Peak: 80	Peak: 74	Avg: 60	Avg: 54						
			Peak: 80	Peak: 74						



Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

NOTE: 1. The lower limit shall apply at the transition frequencies.

- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- 4. QP detector shall be applied if not specified.

2.2.2 TEST INSTRUMENTS

Frequency range below1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.				
3m Semi-anechoic	ETS-LINDGREN	0	Euroshieldpn-	May 00 17	May 05 10				
Chamber	E 15-LINDGREN	9111 6111 6111	CT0001143-1216	May 06,17	May 05,18				
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Nov. 26,16	Nov. 25,18				
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 10,18	Mar. 09,19				
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jul. 24,17	Jul. 23,18				

Frequency range above 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.			
3m Semi-anechoic Chamber	ETS-LINDGREN		Euroshieldpn- CT0001143-1216	May 06,17	May 05,18			
	ETS-LINDGREN			Nov. 26,16	Nov. 25,18			
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 10,18	Mar. 09,19			
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jul. 24,17	Jul. 23,18			

NOTE: 1. The test was performed in 3m chamber.

- 2. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 3. The FCC Site Registration No. is 525120.



2.2.3 TEST PROCEDURE

<Frequency Range below 1GHz>

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTE:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 5. Margin value = Emission level Limit value.



<Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

NOTE:

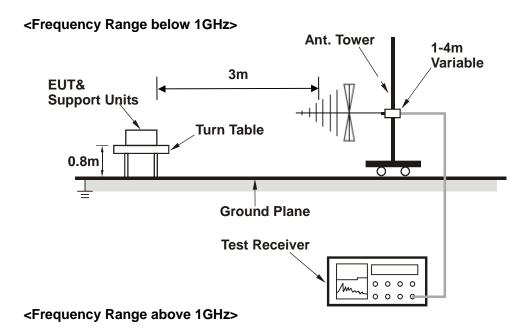
- The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth of test receiver/spectrum analyzer is 10Hz for Average detection (AV) at frequency above 1GHz.
- 3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
- 4. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
- 6. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier)
- 7. Margin value = Emission level Limit value.

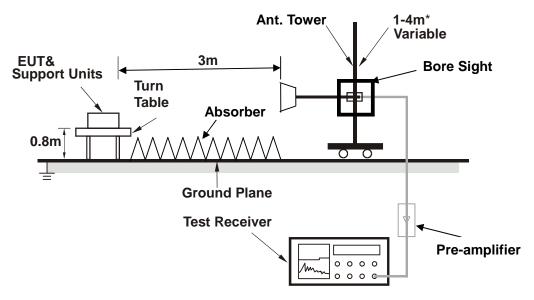
2.2.4 DEVIATION FROM TEST STANDARD

No deviation.



2.2.5 TEST SETUP





*: depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

2.2.6 EUT OPERATING CONDITIONS

Same as item 2.1.6.

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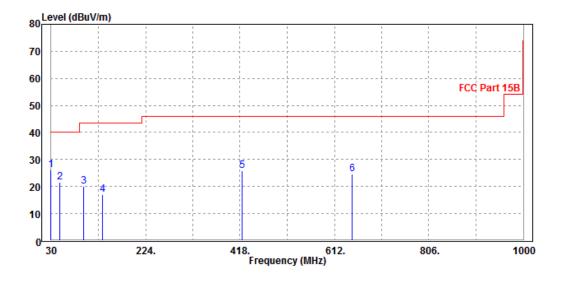


2.2.7 **TEST RESULTS**

TEST VOLTAGE	DC 12V Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Star Le		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
30	26.12	46.04	40	-13.88	17	0.78	37.7	100	325	QP	
48.43	21.56	51.31	40	-18.44	6.55	1.05	37.35	100	35	QP	
96.93	20.09	46.81	43.5	-23.41	8.95	1.52	37.19	100	149	QP	
135.73	17.17	43.62	43.5	-26.33	8.71	1.79	36.95	100	256	QP	
422.85	25.96	42.3	46	-20.04	17.31	3.22	36.87	100	158	QP	
648.86	24.56	36.55	46	-21.44	21.32	4.14	37.45	100	63	QP	

- REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 - 2. Negative sign (-) in the margin column signify levels below the limit.
 - 3. Frequency range scanned: 30MHz to 1000MHz.
 - 4. Only emissions significantly above equipment noise floor are reported.



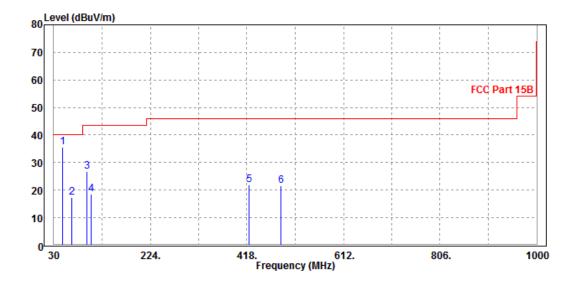
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TEST VOLTAGE	DC 12V Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Star Le		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
47.46	35.7	65.64	40	-4.3	6.39	1.04	37.37	200	15	QP	
65.89	17.2	46.02	40	-22.8	7.27	1.24	37.33	200	69	QP	
96.93	26.87	53.59	43.5	-16.63	8.95	1.52	37.19	200	136	QP	
105.66	18.52	45.11	43.5	-24.98	8.97	1.58	37.14	200	198	QP	
422.85	21.87	38.21	46	-24.13	17.31	3.22	36.87	200	215	QP	
486.87	21.46	37.14	46	-24.54	17.88	3.42	36.98	200	325	QP	

- REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 - 2. Negative sign (-) in the margin column signify levels below the limit.
 - 3. Frequency range scanned: 30MHz to 1000MHz.
 - 4. Only emissions significantly above equipment noise floor are reported.



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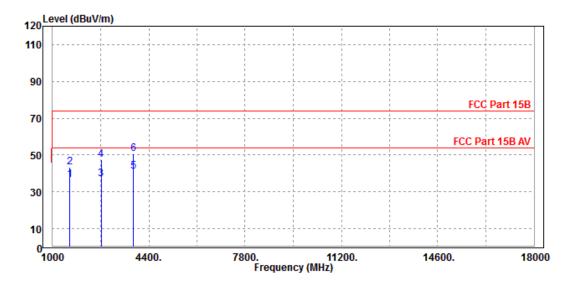


TEST VOLTAGE	DC 12V Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Star Le		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
1595	36.48	49	54	-17.52	29.31	6.53	48.36	100	120	Average
1595	43.29	55.81	74	-30.71	29.31	6.53	48.36	100	120	Peak
2715	37.12	44.09	54	-16.88	32.62	8.72	48.31	100	63	Average
2715	47.29	54.26	74	-26.71	32.62	8.72	48.31	100	63	Peak
3865	41.07	45.44	54	-12.93	33.58	10.58	48.53	100	112	Average
3865	50.73	55.1	74	-23.27	33.58	10.58	48.53	100	112	Peak

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 1GHz to 18GHz.
- 4. Only emissions significantly above equipment noise floor are reported.



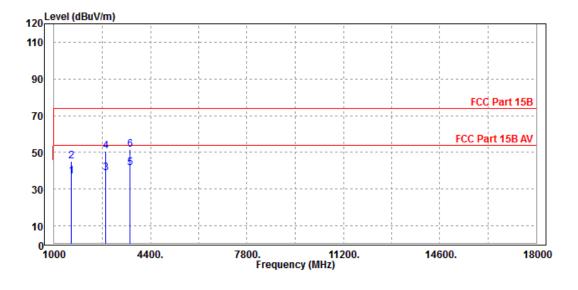


TEST VOLTAGE	DC 12V Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Star Le		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
1595	36.87	49.39	54	-17.13	29.31	6.53	48.36	100	96	Average
1595	45.34	57.86	74	-28.66	29.31	6.53	48.36	100	96	Peak
2805	38.85	45.59	54	-15.15	32.71	8.87	48.32	100	248	Average
2805	50.57	57.31	74	-23.43	32.71	8.87	48.32	100	248	Peak
3670	41.42	46.37	54	-12.58	33.27	10.24	48.46	100	45	Average
3670	51.56	56.51	74	-22.44	33.27	10.24	48.46	100	45	Peak

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.

- 2. Negative sign (-) in the margin column signify levels below the limit.
- 3. Frequency range scanned: 1GHz to 18GHz.
- 4. Only emissions significantly above equipment noise floor are reported.



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3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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