

Global United Technology Services Co., Ltd.

Report No.: GTS2023020111F01

TEST REPORT

Applicant:	SCR Engineers Ltd.
Address of Applicant:	18 Hamelacha street, Poleg Industrial Zone 8310, Netanya, 4250553, Israel
Manufacturer:	SCR Engineers Ltd.
Address of Manufacturer:	18 Hamelacha street, Poleg Industrial Zone 8310, Netanya, 4250553, Israel
Equipment Under Test (E	EUT)
Product Name:	DeLaval milkmeter MM
Model No.:	MM300
Trade Mark:	DeLaval
FCC ID:	AMUMM300
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	February 08, 2023
Date of Test:	February 09-22, 2023
Date of report issued:	February 23, 2023
Test Result :	PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

台哈检测

Robinson Luo Laboratory Manager



This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



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Report No.: GTS2023020111F01

2 Version

Version No.	Date	Description
00	February 23, 2023	Original

Prepared By:

branklu

Date:

February 23, 2023

Project Engineer

Check By:

opinson lund

Date:

February 23, 2023

Reviewer





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4 Test Summary

Test Item	Section in CFR 47	Result	
Antenna requirement	15.203/15.247 (c)	Pass	
AC Power Line Conducted Emission	15.207	Pass	
Conducted Output Power	15.247 (b)(3)	Pass	
Channel Bandwidth	15.247 (a)(2)	Pass	
Power Spectral Density	15.247 (e)	Pass	
Band Edge	15.247(d)	Pass	
Spurious Emission	15.205/15.209	Pass	

Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. Test according to ANSI C63.10

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes			
Radiated Emission	9kHz-30MHz	3.1dB	(1)			
Radiated Emission	30MHz-200MHz	3.8039dB	(1)			
Radiated Emission	200MHz-1GHz	3.9679dB	(1)			
Radiated Emission	1GHz-18GHz	4.29dB	(1)			
Radiated Emission	18GHz-40GHz	3.30dB	(1)			
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)			
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.						





5 General Information

5.1 General Description of EUT

Product Name:	DeLaval milkmeter MM
Model No.:	MM300
Test sample(s) ID:	GTS2023020111-1
Sample(s) Status:	Engineer sample
S/N:	GM0039
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	2.65dBi
Power Supply:	DC 24V





Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz





5.2 Test mode

5.3 Description of Support Units

Manufacturer Description		Model	Serial Number
MEILI DC POWER SUPPLY		MCH-305A	011121168

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: • FCC—Registration No.: 381383 Designation Number: CN5029 Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. • IC —Registration No.: 9079A CAB identifier: CN0091 The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

All tests were performed at: Global United Technology Services Co., Ltd. Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Special test software provided by manufacturer		
Power level setup	Default		





6 Test Instruments list

Rad	Radiated Emission:						
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 02, 2020	July 01, 2025	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	April 22, 2022	April 21, 2023	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 21, 2022	March 20, 2023	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June 12, 2022	June 11, 2023	
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 23, 2022	June 22, 2023	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
8	Coaxial Cable	GTS	N/A	GTS213	April 22, 2022	April 21, 2023	
9	Coaxial Cable	GTS	N/A	GTS211	April 22, 2022	April 21, 2023	
10	Coaxial cable	GTS	N/A	GTS210	April 22, 2022	April 21, 2023	
11	Coaxial Cable	GTS	N/A	GTS212	April 22, 2022	April 21, 2023	
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	April 22, 2022	April 21, 2023	
13	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 23, 2022	June 22, 2023	
14	Band filter	Amindeon	82346	GTS219	June 23, 2022	June 22, 2023	
15	Power Meter	Anritsu	ML2495A	GTS540	June 23, 2022	June 22, 2023	
16	Power Sensor	Anritsu	MA2411B	GTS541	June 23, 2022	June 22, 2023	
17	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 22, 2022	April 21, 2023	
18	Splitter	Agilent	11636B	GTS237	June 23, 2022	June 22, 2023	
19	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 29, 2022	Nov. 28, 2023	
20	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 22, 2022	April 21, 2023	
21	Breitband hornantenna	SCHWARZBECK	BBHA 9170	GTS579	Oct. 16, 2022	Oct. 15, 2023	
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 16, 2022	Oct. 15, 2023	
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 16, 2022	Oct. 15, 2023	
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June 23, 2022	June 22, 2023	
25	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 22, 2022	April 21, 2023	





nducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May 14, 2022	May 13, 2025
EMI Test Receiver	R&S	ESCI 7	GTS552	April 24, 2022	April 23, 2023
Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 23, 2022	June 22, 2023
ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	April 22, 2022	April 21, 2023
Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
EMI Test Software	AUDIX	E3	N/A	N/A	N/A
Thermo meter	JINCHUANG	GSP-8A	GTS639	April 28, 2022	April 27, 2023
Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	April 15, 2022	April 14, 2023
ISN	SCHWARZBECK	NTFM 8158	GTS565	April 22, 2022	April 21, 2023
High voltage probe	SCHWARZBECK	TK9420	GTS537	April 22, 2022	April 21, 2023
	Test Equipment Shielding Room EMI Test Receiver Coaxial Switch ENV216 2-L-V- NETZNACHB.DE Coaxial Cable EMI Test Software Thermo meter Absorbing clamp ISN	Test EquipmentManufacturerShielding RoomZhongYu ElectronEMI Test ReceiverR&SCoaxial SwitchANRITSU CORPENV216 2-L-V- NETZNACHB.DEROHDE&SCHWARZCoaxial CableGTSEMI Test SoftwareAUDIXThermo meterJINCHUANGAbsorbing clampElektronik- FeinmechanikISNSCHWARZBECK	Test EquipmentManufacturerModel No.Shielding RoomZhongYu Electron7.3(L)x3.1(W)x2.9(H)EMI Test ReceiverR&SESCI 7Coaxial SwitchANRITSU CORPMP59BENV216 2-L-V- NETZNACHB.DEROHDE&SCHWARZENV216Coaxial CableGTSN/AEMI Test SoftwareAUDIXE3Thermo meterJINCHUANGGSP-8AAbsorbing clampElektronik- FeinmechanikMDS21ISNSCHWARZBECKNTFM 8158	Test EquipmentManufacturerModel No.Inventory No.Shielding RoomZhongYu Electron7.3(L)x3.1(W)x2.9(H)GTS252EMI Test ReceiverR&SESCI 7GTS552Coaxial SwitchANRITSU CORPMP59BGTS225ENV216 2-L-V- NETZNACHB.DEROHDE&SCHWARZENV216GTS226Coaxial CableGTSN/AGTS227EMI Test SoftwareAUDIXE3N/AThermo meterJINCHUANGGSP-8AGTS639Absorbing clampElektronik- FeinmechanikMDS21GTS229ISNSCHWARZBECKNTFM 8158GTS565	Test EquipmentManufacturerModel No.Inventory No.Cal.Date (mm-dd-yy)Shielding RoomZhongYu Electron7.3(L)x3.1(W)x2.9(H)GTS252May 14, 2022EMI Test ReceiverR&SESCI 7GTS552April 24, 2022Coaxial SwitchANRITSU CORPMP59BGTS225June 23, 2022ENV216 2-L-V- NETZNACHB.DEROHDE&SCHWARZENV216GTS226April 22, 2022Coaxial CableGTSN/AGTS227N/AEMI Test SoftwareAUDIXE3N/AN/AThermo meterJINCHUANGGSP-8AGTS639April 28, 2022Absorbing clampElektronik- FeinmechanikMDS21GTS229April 15, 2022ISNSCHWARZBECKNTFM 8158GTS565April 22, 2022

RF Conducted Test:								
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	April 22, 2022	April 21, 2023		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 22, 2022	April 21, 2023		
3	Spectrum Analyzer	Agilent	E4440A	GTS536	April 22, 2022	April 21, 2023		
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 22, 2022	April 21, 2023		
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 22, 2022	April 21, 2023		
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 22, 2022	April 21, 2023		
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 22, 2022	April 21, 2023		
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 22, 2022	April 21, 2023		

Ger	General used equipment:								
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	April 25, 2022	April 24, 2023			
2	Barometer	KUMAO	SF132	GTS647	July 26, 2022	July 25, 2023			





7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	Standard requirement: FCC Part15 C Section 15.203 /247(c)						
15.203 requirement:							
responsible party shall be us antenna that uses a unique so that a broken antenna ca	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, 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.						
15.247(c) (1)(i) requiremen	t:						
operations may employ trans maximum conducted output	(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.						
E.U.T Antenna:	E.U.T Antenna:						
The antenna is PCB antenna, reference to the appendix II for details							



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7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10	ANSI C63.10						
Test Frequency Range:	150KHz to 30MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto						
Limit:		Limit	(dBuV)					
	Frequency range (MHz)	Quasi-peak	Ave	rage				
	0.15-0.5	66 to 56*	56 to					
	0.5-5	56	4	and the second se				
	5-30	60	5	0				
Test setup:	* Decreases with the logarithr Reference Plane							
Test procedure:	 LISN 40cm 80cm AUX Equipment E.U.T Equipment E.U.T Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m The E.U.T and simulators a line impedance stabilization 500hm/50uH coupling impedence Stabilization 500hm/50uH coupling impedence at photographs). Both sides of A.C. line are interference. In order to fin positions of equipment and according to ANSI C63.10: 	EMI Receiver are connected to the n network (L.I.S.N.). edance for the meas also connected to the m/50uH coupling imp o the block diagram checked for maximud d the maximum emist all of the interface of	This provides uring equipm he main powe bedance with of the test se m conducted ssion, the rela- cables must b	s a lent. er through a 50ohm tup and ative e changed				
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.2 for details							
Test environment:		nid.: 52%	Press.:	1012mbar				
	AC 120V 60Hz	0270		TO LINDU				
Test voltage:								
Test results:	Pass							



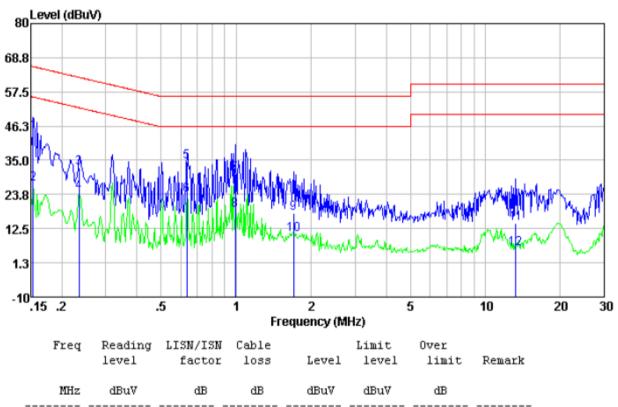


Measurement data

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Pre-scan all test modes, found worst case at 2480MHz, and so only show the test result of 2480MHz,

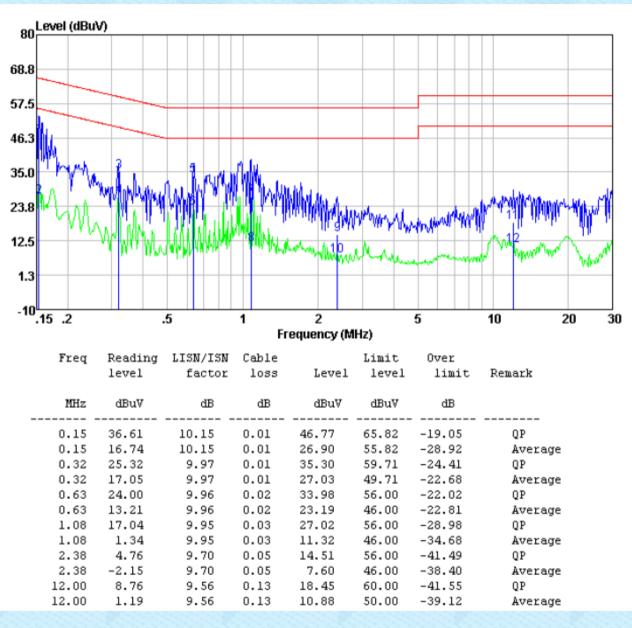
Line:



	dВ	dBuv	dBuv	dВ	dВ	dBuv	MHZ
QP	-21.64	65.82	44.18	0.01	10.12	34.05	0.15
Average	-28.74	55.82	27.08	0.01	10.12	16.95	0.15
QP	-29.79	62.30	32.51	0.01	10.02	22.48	0.23
Average	-27.63	52.30	24.67	0.01	10.02	14.64	0.23
QP	-21.55	56.00	34.45	0.02	9.96	24.47	0.63
Average	-22.42	46.00	23.58	0.02	9.96	13.60	0.63
QP	-25.61	56.00	30.39	0.03	9.96	20.40	0.99
Average	-27.28	46.00	18.72	0.03	9.96	8.73	0.99
QP	-38.41	56.00	17.59	0.04	9.87	7.68	1.70
Average	-35.25	46.00	10.75	0.04	9.87	0.84	1.70
QP	-45.71	60.00	14.29	0.14	9.53	4.62	13.27
Average	-43.98	50.00	6.02	0.14	9.53	-3.65	13.27



Neutral:



Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



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7.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)					
Test Method:	ANSI C63.10 and KDB558074 D01 15.247 Meas Guidance v05r02					
Limit:	30dBm					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					





7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	ANSI C63.10 and KDB558074 D01 15.247 Meas Guidance v05r02					
Limit:	>500KHz					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					



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7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)					
Test Method:	ANSI C63.10 and KDB558074 D01 15.247 Meas Guidance v05r02					
Limit:	8dBm/3kHz					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					





7.6 Spurious Emission in Non-restricted & restricted Bands

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10 and KDB558074 D01 15.247 Meas Guidance v05r02					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

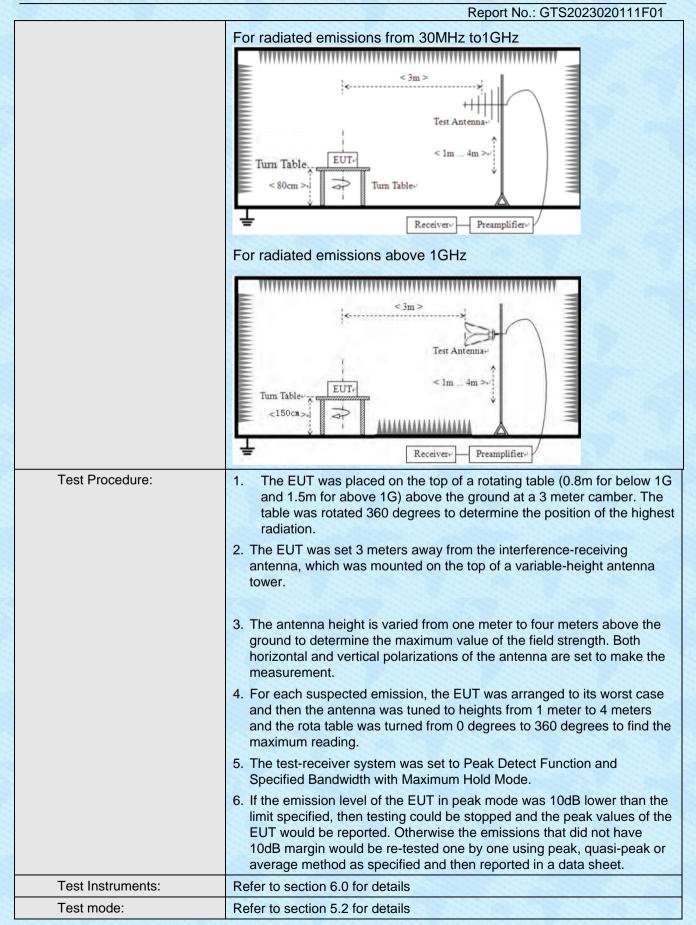




Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10							
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Distar	nce: 3	3m					
Receiver setup:	Frequency Detector RBW VBW Value							
	9KHz-150KHz	9KHz-150KHz Quasi-peak 200Hz 600Hz Quasi-peak						
	150KHz-30MHz	Qu	lasi-peak	9KH	łz	30KHz	Quasi-peak	
	30MHz-1GHz	Qu	lasi-peak	120K	Hz	300KHz	Quasi-peak	
	Above 1GHz		Peak	1MH	Ηz	3MHz	Peak	
			Peak	1MF	Ηz	10Hz	Average	
	Note: For Duty cyc cycle < 98%, averag			-				
Limit:	Frequency		Limit (u∨	//m)	١	/alue	Measurement Distance	
	0.009MHz-0.490M	IHz	2400/F(K	(Hz)	QP	/PK/AV	300m	
	0.490MHz-1.705M	Hz	24000/F(I	KHz)		QP	30m	
	1.705MHz-30MH	z	30			QP	30m	
		30MHz-88MHz 100 QP 88MHz-216MHz 150 QP						
	216MHz-960MH		200			QP	3m	
	960MHz-1GHz		500		QP			
	Above 1GHz		500		Average			
			5000		-	Peak		
Test setup:	For radiated emiss	sions	from 9kH	z to 30	MHz	z		
	Tum Table		< 3m > Test A ım Table+'	ntenna Im)			











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Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	DC 24V					
Test results:	Pass					

Measurement data:

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

9kHz~30MHz

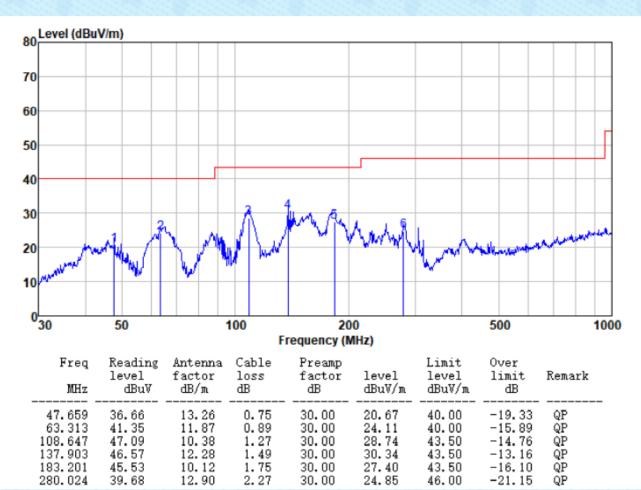
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.





Below 1GHz

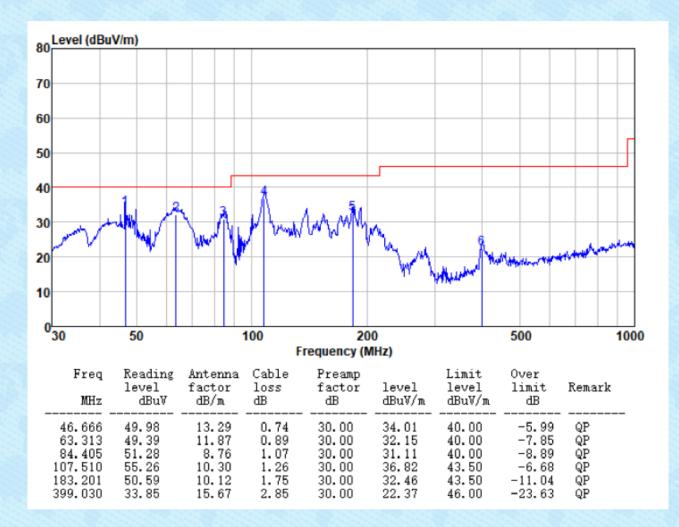
Pre-scan all test modes, found worst case at 2480MHz, and so only show the test result of 2480MHz Horizontal:







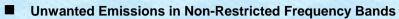
Vertical:

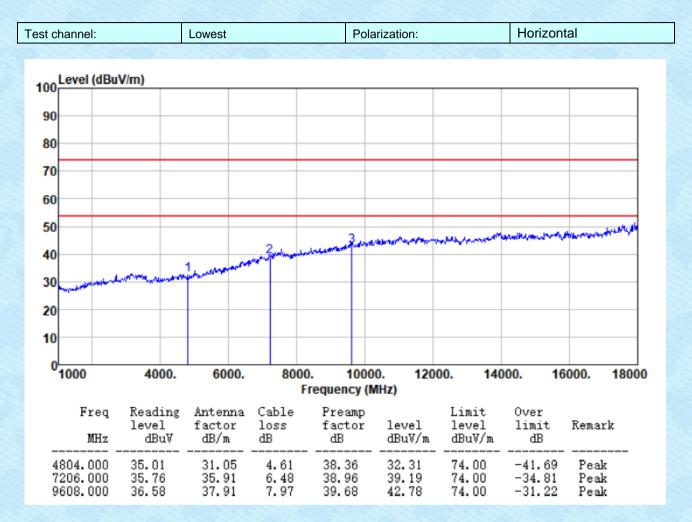






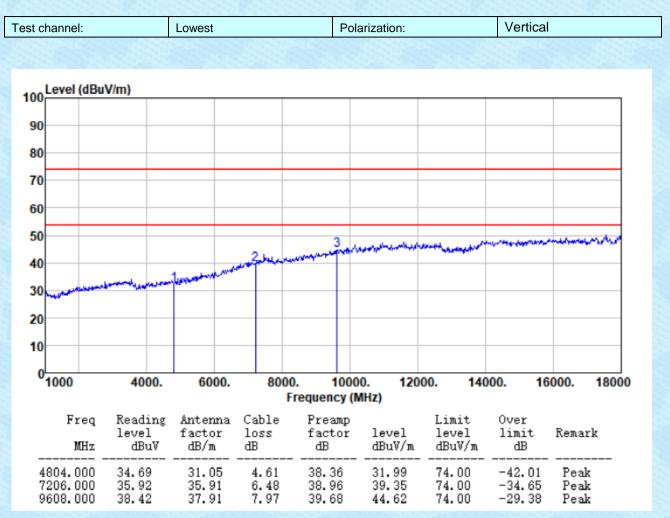
Above 1GHz





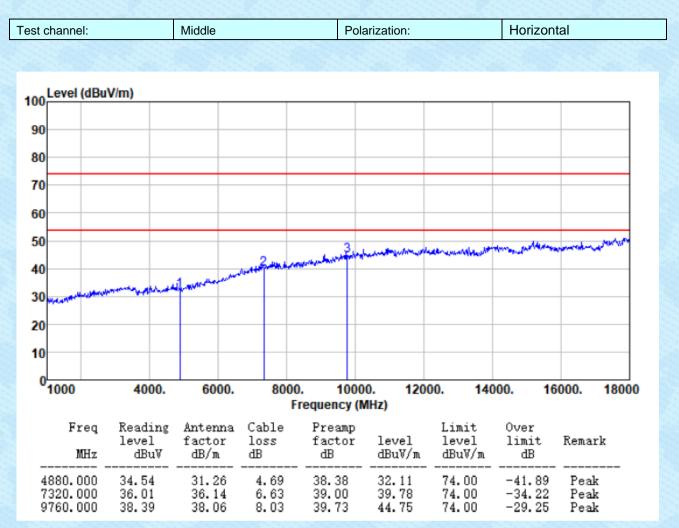






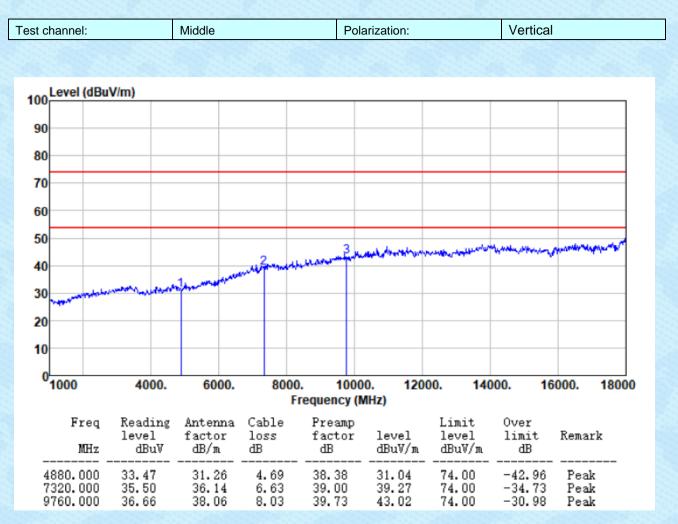






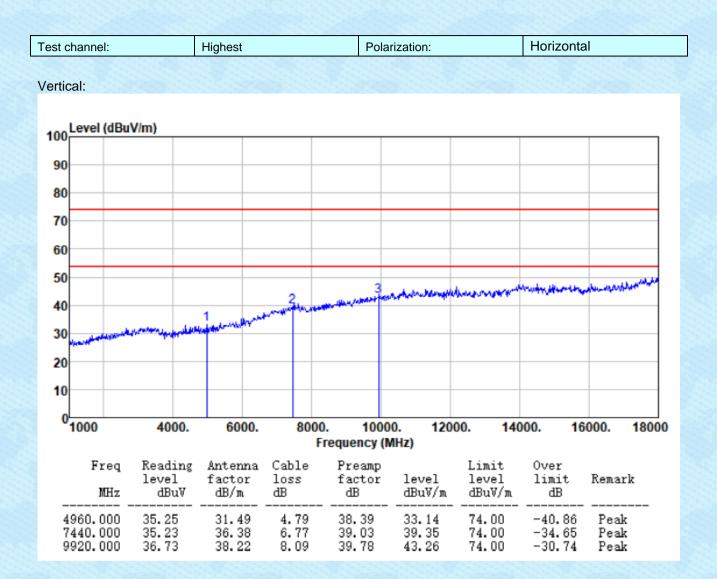






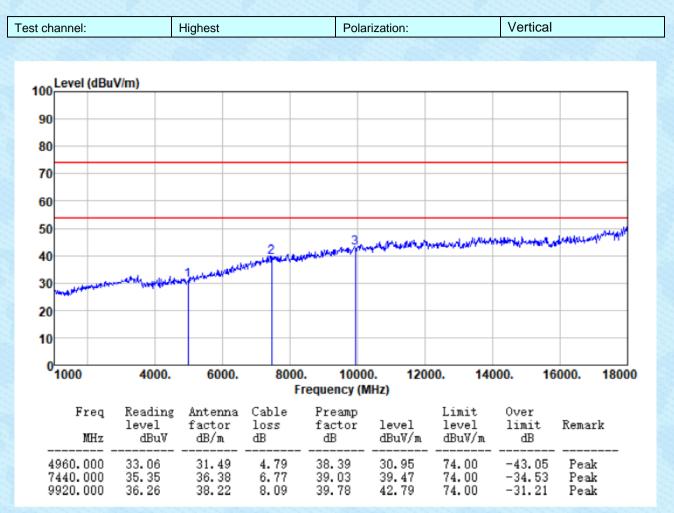












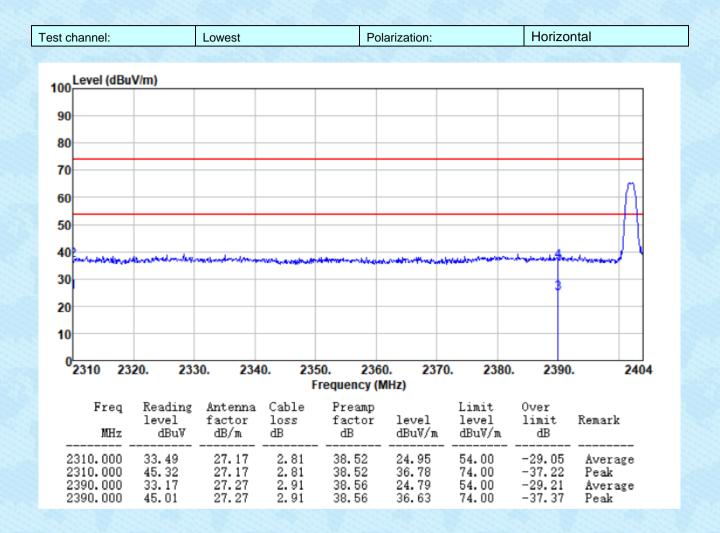
Remarks:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



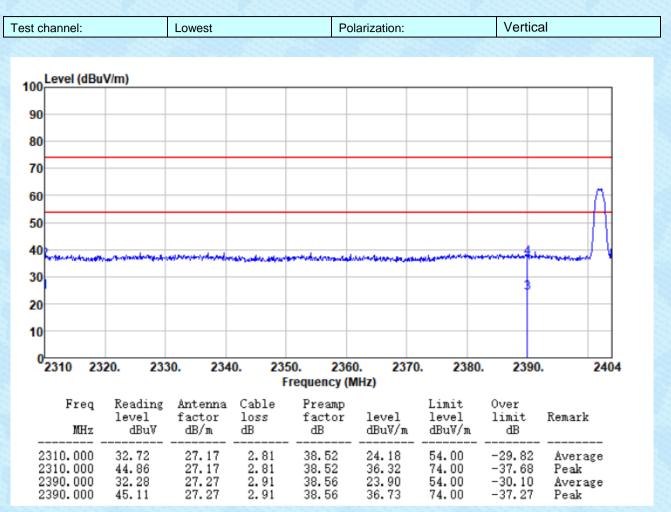


Unwanted Emissions in Restricted Frequency Bands



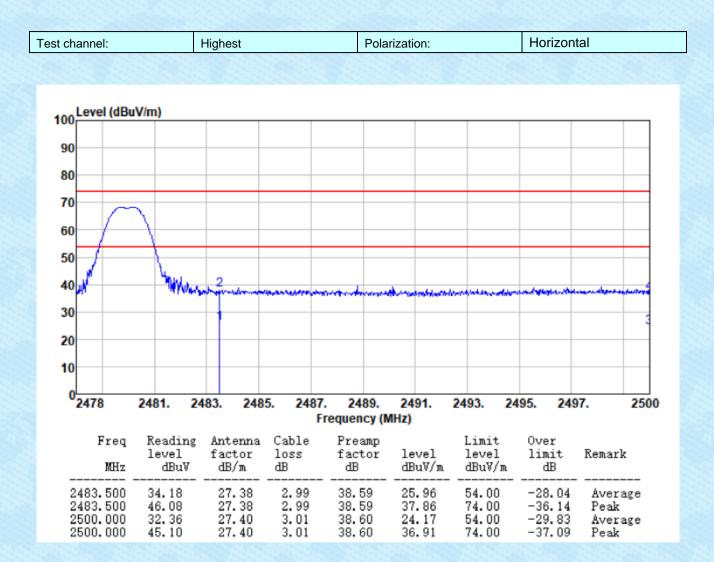






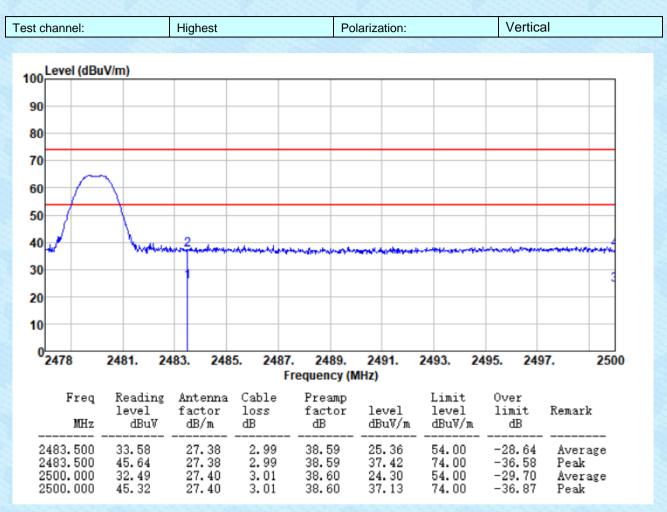












Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

2. The emission levels of other frequencies are very lower than the limit and not show in test report.





8 Test Setup Photo

Reference to the appendix I for details.



Reference to the appendix II for details.

-----End-----