

GTS **Global United Technology Services Co., Ltd.**

Report No.: GTS2023070316F01

TEST REPORT

Applicant:	Augury systems Ltd.
Address of Applicant:	Haazmaut 39, Haifa 3303320, Israel
Manufacturer 1:	R.H. Electronics Ltd.
Address of Manufacturer 1:	5 Hatzoref St. Har-Yona Industrial Area, Nof Hagalil, Nazeret Illit P.O 1700, Israel
Manufacturer 2:	Ionics EMS Inc.
Address of Manufacturer 2:	Ionics-EMS PlantSEPZ, 5/6 Circuit St.,LISP,Cabuyao 4025, Philippines
Equipment Under Test (E	EUT)
Product Name:	Halo Node v2.0
Model No.:	Halo Node v2.0
Trade Mark:	AC00013
FCC ID:	2A3XG-AC00013
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	July 24, 2023
Date of Test:	July 25, 2023-September 20, 2023
Date of report issued:	September 20, 2023
Test Result :	PASS *

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

Authorized Signature:



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.





2 Version

Version No.	Date	Description
00	September 20, 2023	Original
	2008 - 17 2008 - 17 20 20 20 20 20 20 20 20 20 20 20 20 20	

Prepared By:

handly C

Date:

September 20, 2023

Project Engineer

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Check By:

opinson lund Reviewer

Date:

September 20, 2023

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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 C63.10:2013

Measurement Uncertainty

Frequency Range	Measurement Uncertainty No		
9kHz-30MHz	3.1dB	(1)	
30MHz-200MHz	3.8039dB	(1)	
200MHz-1GHz	3.9679dB	(1)	
1GHz-18GHz	4.29dB	(1)	
18GHz-40GHz	3.30dB	(1)	
AC Power Line Conducted 0.15MHz ~ 30MHz 3.44dB (1)			
	9kHz-30MHz 30MHz-200MHz 200MHz-1GHz 1GHz-18GHz 18GHz-40GHz	9kHz-30MHz 3.1dB 30MHz-200MHz 3.8039dB 200MHz-1GHz 3.9679dB 1GHz-18GHz 4.29dB 18GHz-40GHz 3.30dB	





5 General Information

5.1 General Description of EUT

Product Name:	Halo Node v2.0
Model No.:	Halo Node v2.0
Test sample(s) ID:	GTS2023070316-1
Sample(s) Status:	Engineer sample
Serial No.:	100-113-171
Hardware Version:	AC00013 Node Type 2 Rev. C
Software Version:	1
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Data Rate:	LE 1M PHY: 1 Mb/s
Modulation Type:	GFSK
Antenna Type:	External Omni Antenna
Antenna Gain:	Ant1: 5dBi(declare by applicant)
	Ant2: 5dBi(declare by applicant)
Power Supply:	Input: AC 100-240V, 50/60Hz, 0.75-0.5A
	Output: DC 12V, 2.5A
	Or
	Power by POE

Remark:

1. Antenna gain information provided by the customer

2. The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.

3. All 2 adapters were tested and passed, only report the worst case adapter 1.





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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

Transmitting mode	Keep the EUT in continuously transmitting mode.
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5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number/FCC ID
GTS	POE Injector	PSE801G	N/A

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

N	one.
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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. • ISED—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 ISED 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	Test software provided by manufacturer
Power level setup	Default





6 Test Instruments list

Radia	Radiated Emission:							
Item	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	June 23, 2021	June 22, 2024		
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 14, 2023	April 13, 2024		
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 19, 2023	March 18, 2025		
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	April 17, 2023	April 16, 2025		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
7	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 14, 2023	April 13, 2024		
8	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 29, 2022	Nov. 28, 2023		
9	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 14, 2023	April 13, 2024		
10	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 14, 2023	April 13, 2024		
11	Horn Antenna (18- 26.5GHz)	/	UG-598A/U	GTS664	Oct. 30, 2022	Oct. 29, 2023		
12	Horn Antenna (26.5-40GHz)	A.H Systems	SAS-573	GTS665	Oct. 30, 2022	Oct. 29, 2023		
13	FSV-Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	March 13, 2023	March 12, 2024		
14	Amplifier	/	LNA-1000-30S	GTS650	April 14, 2023	April 13, 2024		
15	CDNE M2+M3-16A	НСТ	30MHz-300MHz	GTS668	Dec. 20, 2022	Dec.19, 2023		
16	Wideband Amplifier	1	WDA-01004000-15P35	GTS602	April 14, 2023	April 13, 2024		
17	Thermo meter	JINCHUANG	GSP-8A	GTS643	April 19, 2023	April 18, 2024		
18	RE cable 1	GTS	N/A	GTS675	July 31. 2023	July 30. 2024		
19	RE cable 2	GTS	N/A	GTS676	July 31. 2023	July 30. 2024		
20	RE cable 3	GTS	N/A	GTS677	July 31. 2023	July 30. 2024		
21	RE cable 4	GTS	N/A	GTS678	July 31. 2023	July 30. 2024		
22	RE cable 5	GTS	N/A	GTS679	July 31. 2023	July 30. 2024		
23	RE cable 6	GTS	N/A	GTS680	July 31. 2023	July 30. 2024		
24	RE cable 7	GTS	N/A	GTS681	July 31. 2023	July 30. 2024		
25	RE cable 8	GTS	N/A	GTS682	July 31. 2023	July 30. 2024		





Cond	ucted Emission			1222		
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	July 12, 2022	July 11, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 14, 2023	April 13, 2024
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	April 14, 2023	April 13, 2024
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Thermo meter	JINCHUANG	GSP-8A	GTS642	April 19, 2023	April 18, 2024
7	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	April 14, 2023	April 13, 2024
8	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 14, 2023	April 13, 2024
9	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 14, 2023	April 13, 2024
10	Antenna end assembly	Weinschel	1870A	GTS560	April 14, 2023	April 13, 2024

RF Co	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 14, 2023	April 13, 2024	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 14, 2023	April 13, 2024	
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	April 14, 2023	April 13, 2024	
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 14, 2023	April 13, 2024	
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 14, 2023	April 13, 2024	
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 14, 2023	April 13, 2024	
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 14, 2023	April 13, 2024	
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 14, 2023	April 13, 2024	
9	Thermo meter	JINCHUANG	GSP-8A	GTS641	April 19, 2023	April 18, 2024	
10	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 04, 2022	Nov. 03, 2023	

Gen	General used equipment:						
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Barometer	KUMAO	SF132	GTS647	April 19, 2023	April 18, 2024	





7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)					
15.203 requirement:						
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	15.247(c) (1)(i) requirement:					
operations may employ tran 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:						
The antenna is external om	The antenna is external omni antenna, reference to the appendix II for details					





7.2 Conducted Emissions

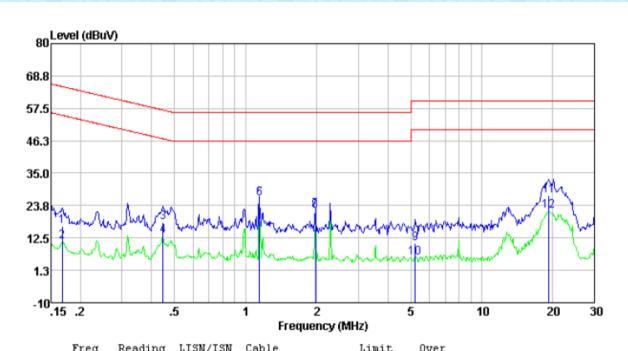
Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto				
Limit:		Limit ((dBuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56 60	46 50			
	* Decreases with the logarithm		50			
Test setup:	Reference Plane					
	40cm LISN 40cm LISN 40cm LISN Filter AC power					
	Test table/Insulation plane Remarkc E. U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver				
Test procedure:	1. The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impe	n network (L.I.S.N.). T	his provides a			
	 The peripheral devices are LISN that provides a 50ohr termination. (Please refer to photographs). 	n/50uH coupling impe	edance with 50ohm			
	 Both sides of A.C. line are interference. In order to fine positions of equipment and according to ANSI C63.10: 	d the maximum emiss all of the interface ca	ion, the relative bles must be changed			
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.: 25 °C Hun	nid.: 52%	Press.: 1012mbar			
Test voltage:	AC 120V 60Hz					
Test results:	Pass					





Measurement data:

Pre-scan all test modes, found worst case at 2402MHz@ANT 1, and so only show the test result of it Line:

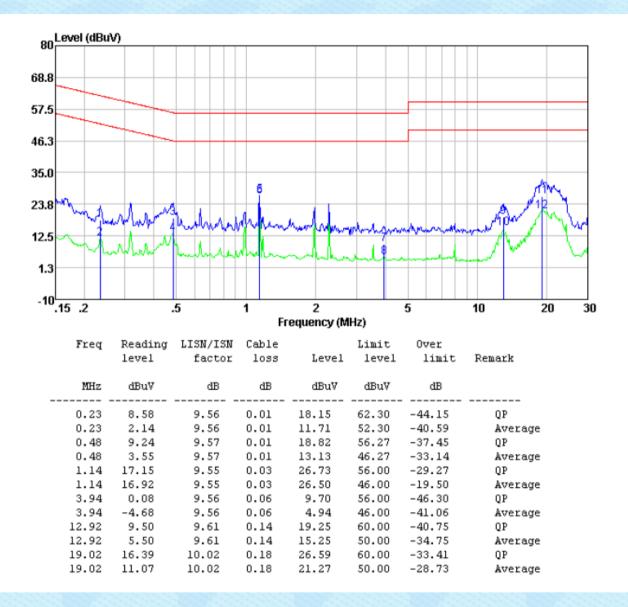


	rreq	Reading	LISN/ISN	Cable		Limit	Uver	
		level	factor	loss	Level	level	limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
-	0.17	7.05	9.54	0.01	16.60	65.08	-48.48	QP
	0.17	1.66	9.54	0.01	11.21	55.08	-43.87	Average
	0.45	8.55	9.49	0.01	18.05	56.93	-38.88	QP
	0.45	3.67	9.49	0.01	13.17	46.93	-33.76	Average
	1.14	16.82	9.51	0.03	26.36	56.00	-29.64	QP
	1.14	16.78	9.51	0.03	26.32	46.00	-19.68	Average
	1.98	12.61	9.61	0.04	22.26	56.00	-33.74	QP
	1.98	12.35	9.61	0.04	22.00	46.00	-24.00	Average
	5.22	1.20	9.47	0.07	10.74	60.00	-49.26	QP
	5.22	-4.01	9.47	0.07	5.53	50.00	-44.47	Average
	19.22	17.01	9.94	0.18	27.13	60.00	-32.87	QP
	19.22	11.70	9.94	0.18	21.82	50.00	-28.18	Average



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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



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7.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	ANSI C63.10:2013 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				



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7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10:2013 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 C63.10:2013 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

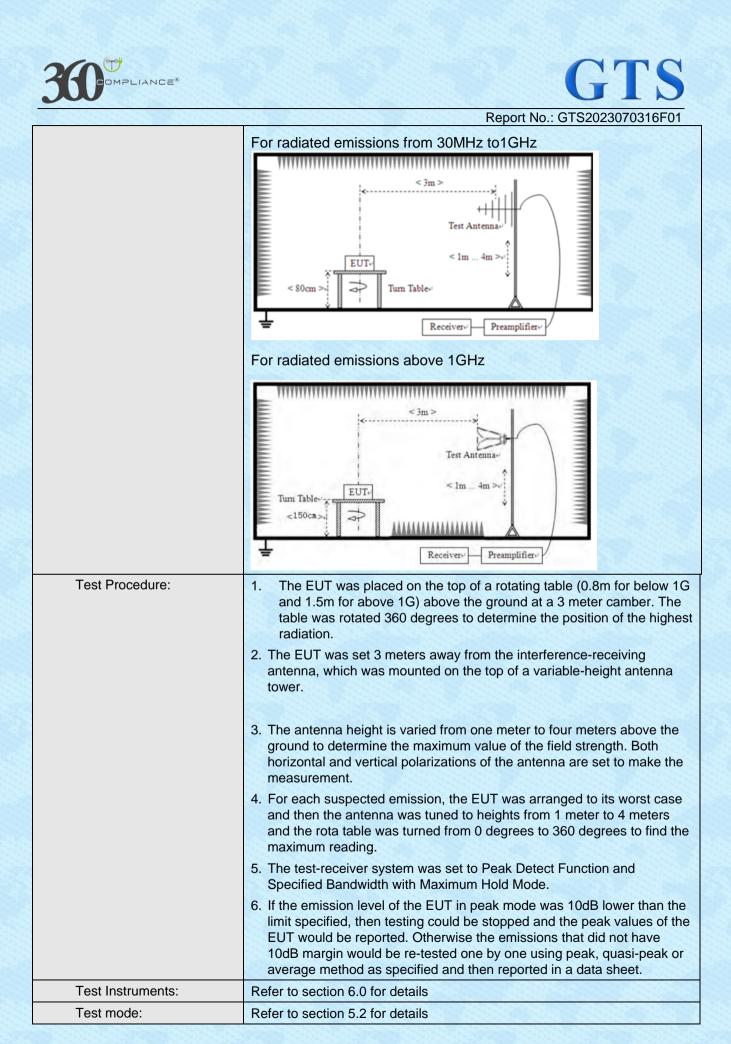
Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 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:	radiated measurement. 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				





7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	C	Detector	RB	N	VBW	Value		
	9KHz-150KHz	Qu	uasi-peak	200	Ηz	600Hz	Quasi-peak		
	150KHz-30MHz	Qu	uasi-peak	9KH	łz	30KHz	Quasi-peak		
	30MHz-1GHz	Qu	uasi-peak	120K	Hz	300KHz	Quasi-peak		
	Above 1GHz		Peak	1MH	Ηz	3MHz	Peak		
	Above ronz		Peak	1MH	Ηz	10Hz	Average		
	Note: For Duty cyc cycle < 98%, avera								
Limit:	Frequency		Limit (u∖	//m)	١	/alue	Measurement Distance		
	0.009MHz-0.490M	IHz	2400/F(k	(Hz)	PK/QP/AV		300m		
	0.490MHz-1.705M	IHz	24000/F(KHz)		QP		30m		
	1.705MHz-30MH	lz	30		QP		30m		
	30MHz-88MHz		100		QP				
	88MHz-216MHz	z 150				QP			
	216MHz-960MH	z	200		QP		3m		
	960MHz-1GHz		500		QP		om		
	Above 1GHz		500		Average				
		5000			Peak				
Test setup:	For radiated emiss	sions	from 9kH	z to 30	MH:	z			
			< 3m >	lm Receive		t Antenna			







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Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
Test voltage:	AC 120V 60Hz						
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. Both 2 antennas were tested and compliance, only worst condition(ANT 1) report.

9kHz~30MHz

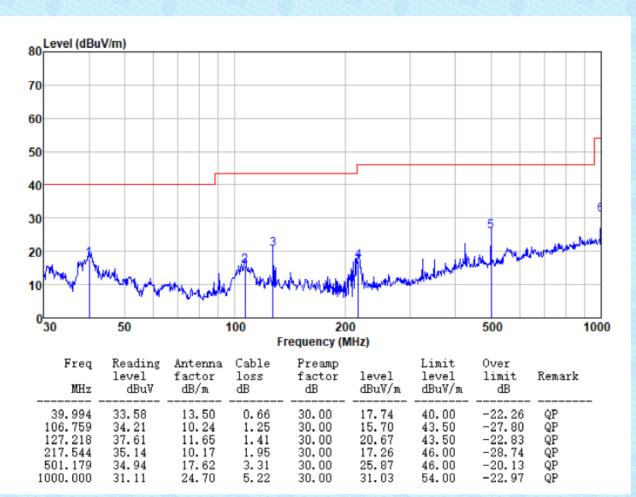
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.





Below 1GHz

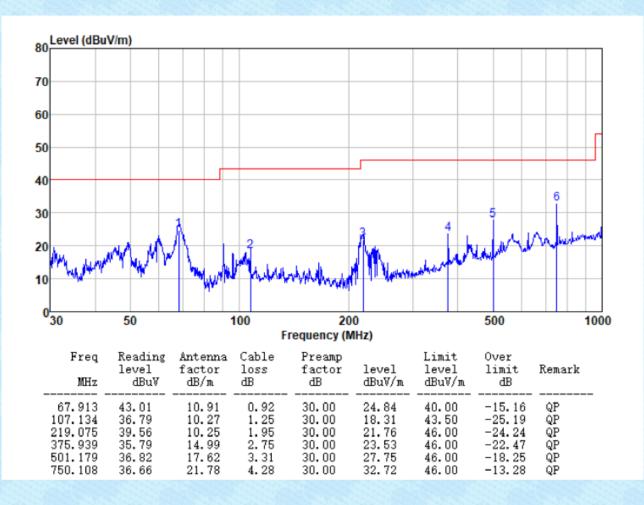
Pre-scan all test modes, found worst case at 2402MHz@ANT 1, and so only show the test result of it **Horizontal:**







Vertical:







Above 1GHz

Unwanted Emissions in Non-restricted Frequency Bands

Test channel:				Lowest channel					
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4804.00	36.06	31.78	8.60	32.09	44.35	74.00	-29.65	Vertical	
7206.00	30.67	36.15	11.65	32.00	46.47	74.00	-27.53	Vertical	
9608.00	31.00	37.95	14.14	31.62	51.47	74.00	-22.53	Vertical	
4804.00	40.30	31.78	8.60	32.09	48.59	74.00	-25.41	Horizontal	
7206.00	32.62	36.15	11.65	32.00	48.42	74.00	-25.58	Horizontal	
9608.00	29.67	37.95	14.14	31.62	50.14	74.00	-23.86	Horizontal	
Average val	ue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4804.00	24.68	31.78	8.60	32.09	32.97	54.00	-21.03	Vertical	
7206.00	19.59	36.15	11.65	32.00	35.39	54.00	-18.61	Vertical	
9608.00	19.00	37.95	14.14	31.62	39.47	54.00	-14.53	Vertical	
4804.00	29.01	31.78	8.60	32.09	37.30	54.00	-16.70	Horizontal	
7206.00	21.74	36.15	11.65	32.00	37.54	54.00	-16.46	Horizontal	
9608.00	18.91	37.95	14.14	31.62	39.38	54.00	-14.62	Horizontal	





Test channel		Middle channel							
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4880.00	36.41	31.85	8.67	32.12	44.81	74.00	-29.19	Vertical	
7320.00	30.89	36.37	11.72	31.89	47.09	74.00	-26.91	Vertical	
9760.00	31.20	38.35	14.25	31.62	52.18	74.00	-21.82	Vertical	
4880.00	40.71	31.85	8.67	32.12	49.11	74.00	-24.89	Horizontal	
7320.00	32.88	36.37	11.72	31.89	49.08	74.00	-24.92	Horizontal	
9760.00	29.91	38.35	14.25	31.62	50.89	74.00	-23.11	Horizontal	
Average val	ue:		1.2.2.3						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4880.00	24.97	31.85	8.67	32.12	33.37	54.00	-20.63	Vertical	
7320.00	19.79	36.37	11.72	31.89	35.99	54.00	-18.01	Vertical	
9760.00	19.17	38.35	14.25	31.62	40.15	54.00	-13.85	Vertical	
4880.00	29.34	31.85	8.67	32.12	37.74	54.00	-16.26	Horizontal	
7320.00	21.95	36.37	11.72	31.89	38.15	54.00	-15.85	Horizontal	
9760.00	19.11	38.35	14.25	31.62	40.09	54.00	-13.91	Horizontal	





Test channe	l:			Highest channel					
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4960.00	36.45	31.93	8.73	32.16	44.95	74.00	-29.05	Vertical	
7440.00	30.92	36.59	11.79	31.78	47.52	74.00	-26.48	Vertical	
9920.00	31.23	38.81	14.38	31.88	52.54	74.00	-21.46	Vertical	
4960.00	40.76	31.93	8.73	32.16	49.26	74.00	-24.74	Horizontal	
7440.00	32.92	36.59	11.79	31.78	49.52	74.00	-24.48	Horizontal	
9920.00	29.94	38.81	14.38	31.88	51.25	74.00	-22.75	Horizontal	
Average val	ue:		12000						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4960.00	25.03	31.93	8.73	32.16	33.53	54.00	-20.47	Vertical	
7440.00	19.83	36.59	11.79	31.78	36.43	54.00	-17.57	Vertical	
9920.00	19.21	38.81	14.38	31.88	40.52	54.00	-13.48	Vertical	
4960.00	29.41	31.93	8.73	32.16	37.91	54.00	-16.09	Horizontal	
7440.00	22.00	36.59	11.79	31.78	38.60	54.00	-15.40	Horizontal	
9920.00	19.15	38.81	14.38	31.88	40.46	54.00	-13.54	Horizontal	
Domortio	ALC: STORES	1	and the second	and a start of the		Contraction of the	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	and a state of the	

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.





Vertical

Unwanted Emissions in Restricted Frequency Bands

27.37

2.91

38.15

- Onwanted Emissions in Restricted Frequency Bands											
Test channe	Test channel: Lowest channel										
Peak value:											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
2310.00	46.50	27.14	2.81	38.64	37.81	74.00	-36.19	Horizontal			
2390.00	50.04	27.37	2.91	38.84	41.48	74.00	-32.52	Horizontal			
2310.00	46.72	27.14	2.81	38.64	38.03	74.00	-35.97	Vertical			
2390.00	51.56	27.37	2.91	38.84	43.00	74.00	-31.00	Vertical			
Average va	lue:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
2310.00	35.92	27.14	2.81	38.64	27.23	54.00	-26.77	Horizontal			
2390.00	37.51	27.37	2.91	38.84	28.95	54.00	-25.05	Horizontal			
2310.00	36.10	27.14	2.81	38.64	27.41	54.00	-26.59	Vertical			

Test channe	: :			Hig	Highest channel					
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
2483.50	48.64	27.82	2.99	39.05	40.40	74.00	-33.60	Horizontal		
2500.00	47.28	27.70	3.01	39.10	38.89	74.00	-35.11	Horizontal		
2483.50	49.95	27.82	2.99	39.05	41.71	74.00	-32.29	Vertical		
2500.00	48.54	27.70	3.01	39.10	40.15	74.00	-33.85	Vertical		
Average val	lue:		Maria and							

38.84

29.59

54.00

-24.41

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.90	27.82	2.99	39.05	28.66	54.00	-25.34	Horizontal
2500.00	36.64	27.70	3.01	39.10	28.25	54.00	-25.75	Horizontal
2483.50	37.31	27.82	2.99	39.05	29.07	54.00	-24.93	Vertical
2500.00	36.85	27.70	3.01	39.10	28.46	54.00	-25.54	Vertical

Remarks:

2390.00

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.

9 EUT Constructional Details

Reference to the appendix II for details.

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