

Shenzhen Toby Technology Co., Ltd.



Report No.: TBR-C-202409-0168-2

Page: 1 of 58

Radio Test Report

FCC ID: 2BGT5-K67

Original Grant

Report No. : TBR-C-202409-0168-2

Applicant : SHENZHEN CACGO INTELLIGENT CO.,LTD

Equipment Under Test (EUT)

EUT Name: smart watch

Model No. : K67

Series Model No. : K67Pro

Brand Name : ----

Sample ID : HC-C-202409-0168-01-01# & HC-C-202409-0168-01-02#

Receipt Date : 2024-09-26

Test Date : 2024-09-26 to 2024-10-15

Issue Date : 2024-10-15

Standards : FCC Part 15 Subpart C 15.247

Test Method : ANSI C63.10: 2013

KDB 558074 D01 15.247 Meas Guidance v05r02

Conclusions : PASS

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

Tested By : Rice . Chan

Reviewed By : (purite 4)

Approved By : WIXIN SV

Rick Chen Co.
Camille Li
Van Su *

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0



Report No.: TBR-C-202409-0168-2 Page: 2 of 58

Contents

COI	NTENTS	2			
1.	GENERAL INFORMATION ABOUT EUT	6			
	1.1 Client Information	6			
	1.2 General Description of EUT (Equipment Under Test)	6			
	1.3 Block Diagram Showing the Configuration of System Tested	8			
	1.4 Description of Support Units	8			
	1.6 Description of Test Software Setting	10			
	1.7 Measurement Uncertainty	10			
	1.8 Test Facility				
2.	TEST SUMMARY	12			
3.	TEST SOFTWARE	12			
4.	TEST EQUIPMENT AND TEST SITE	13			
5.	CONDUCTED EMISSION	15			
	5.1 Test Standard and Limit	15			
	5.2 Test Setup	15			
	5.3 Test Procedure	15			
	5.4 Deviation From Test Standard	16			
	5.5 EUT Operating Mode	16			
	5.6 Test Data	16			
6.	RADIATED AND CONDUCTED UNWANTED EMISSIONS	17			
	6.1 Test Standard and Limit	17			
	6.2 Test Setup	18			
	6.3 Test Procedure	19			
	6.4 Deviation From Test Standard				
	6.5 EUT Operating Mode	21			
	6.6 Test Data				
7.	EMISSIONS IN RESTRICTED BANDS				
	7.1 Test Standard and Limit	22			
	7.2 Test Setup	22			
	7.3 Test Procedure	23			
	7.4 Deviation From Test Standard				
	7.5 EUT Operating Mode	25			





Report No.: TBR-C-202409-0168-2 Page: 3 of 58

	7.6 Test Data	25
8.	99% OCCUPIED AND 20DB BANDWIDTH	26
	8.1 Test Standard and Limit	26
	8.2 Test Setup	
	8.3 Test Procedure	
	8.4 Deviation From Test Standard	27
	8.5 EUT Operating Mode	27
	8.6 Test Data	27
9.	PEAK OUTPUT POWER TEST	28
	9.1 Test Standard and Limit	28
	9.2 Test Setup	28
	9.3 Test Procedure	28
	9.4 Deviation From Test Standard	29
	9.5 EUT Operating Mode	29
	9.6 Test Data	29
10.	CARRIER FREQUENCY SEPARATION	30
	10.1 Test Standard and Limit	30
	10.2 Test Setup	30
	10.3 Test Procedure	30
	10.4 Deviation From Test Standard	31
	10.5 Antenna Connected Construction	
	10.6 Test Data	
11.	TIME OF OCCUPANCY (DWELL TIME)	32
	11.1 Test Standard and Limit	32
	11.2 Test Setup	32
	11.3 Test Procedure	32
	11.4 Deviation From Test Standard	33
	11.5 Antenna Connected Construction	33
	11.6 Test Data	33
12.	NUMBER OF HOPPING FREQUENCIES	34
	12.1 Test Standard and Limit	34
	12.2 Test Setup	34
	12.3 Test Procedure	34
	12.4 Deviation From Test Standard	
	12.5 Antenna Connected Construction	35
	12.6 Test Data	35



Report No.: TBR-C-202409-0168-2 Page: 4 of 58

13.	ANTENNA REQUIREMENT	36
	13.1 Test Standard and Limit	36
	13.2 Deviation From Test Standard	36
	13.3 Antenna Connected Construction	36
	13.4 Test Data	36
ATT	ACHMENT A CONDUCTED EMISSION TEST DATA	37
ATT	ACHMENT BUNWANTED EMISSIONS DATA	39





Report No.: TBR-C-202409-0168-2 Page: 5 of 58

Revision History

Report No.	Version	Description	Issued Date
TBR-C-202409-0168-2	Rev.01	Initial issue of report	2024-10-15
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Page: 6 of 58

1. General Information about EUT

1.1 Client Information

Applicant		SHENZHEN CACGO INTELLIGENT CO.,LTD
Address	:	1105 Yifenghua Bld, 28 Yifenghua Innovation Industrial Park, Dalang street, Longhua district, ShenZhen, China
Manufacturer		SHENZHEN CACGO INTELLIGENT CO.,LTD
Address		1105 Yifenghua Bld, 28 Yifenghua Innovation Industrial Park,
Address		Dalang street, Longhua district, ShenZhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name		smart watch	smart watch		
Model(s) No.	•	K67, K67Pro			
Model Difference	13	All these models are identical in the same PCB layout and electrical circuit, the only difference is that appearance.			
Product Description	EST 10	Operation Frequency:	Bluetooth V5.3: 2402MHz~2480MHz		
		Number of Channel:	79 channels		
		Antenna Gain:	-1dBi Wire Antenna		
		Modulation Type:	GFSK π /4-DQPSK 8-DPSK		
Power Supply	7	Input: DC 5V/0.2A			
Li-ion Polymer Battery	5	DC 3.8V by 530mAh Rechargeable Li-ion battery			
Software Version	on : AT328BV001279(Updatable)		atable)		
Hardware Version		AT328LV01(Updatable			

Remark:

- (1) The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.
- (2) The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.





Report No.: TBR-C-202409-0168-2 Page: 7 of 58

(3) Channel List:

Bluetooth Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

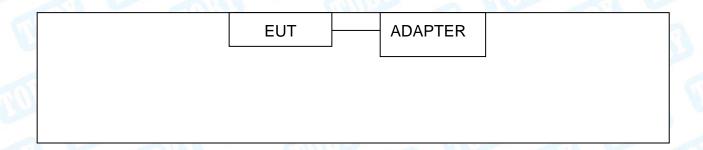




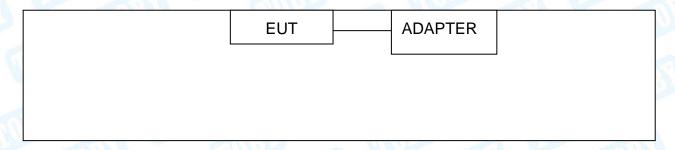
Report No.: TBR-C-202409-0168-2 Page: 8 of 58

1.3 Block Diagram Showing the Configuration of System Tested

Conducted Test



Radiated Test



1.4 Description of Support Units

Equipment Information					
Name	Model	FCC ID/VOC	Manufacturer	Used "√"	
Adapter			HUAWEI	1	
		Cable Information			
Number	Shielded Type	Ferrite Core	Length	Note	
Cable 1				Accessory	
	Remark:	The adapter is provided by	the Lab.	The same of	





Page: 9 of 58

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test				
Final Test Mode	Description			
Mode 1	Charging + TX GFSK Mode Channel 00			
	For Radiated Test			
Final Test Mode	Description			
Mode 1	TX GFSK Mode Channel 00			
Mode 2 TX Mode (GFSK) Channel 00/39/78				
Mode 3 TX Mode (π /4-DQPSK) Channel 00/39/78				
Mode 4 TX Mode (8-DPSK) Channel 00/39/78				
Mode 5 Hopping Mode (GFSK)				
Mode 6 Hopping Mode (π /4-DQPSK)				
Mode 7	Hopping Mode (8-DPSK)			

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

TX Mode: GFSK (1 Mbps)

TX Mode: π/4-DQPSK (2 Mbps)
TX Mode: 8-DPSK (3 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.





Page: 10 of 58

1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

Test Software Version	MORE	BT FCC Tool V2.2	4
Frequency	2402 MHz	2441MHz	2480 MHz
GFSK	1	1000	1
π /4-DQPSK	1	1	m(1) 1
8-DPSK	1	101	1,008

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	$\pm 3.50~\mathrm{dB}$ $\pm 3.10~\mathrm{dB}$
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB





Page: 11 of 58

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.





Report No.: TBR-C-202409-0168-2 Page: 12 of 58

2. Test Summary

Standard Section	Took Hom	Took Commission	l dama a m t	Remark
FCC	Test Item	Test Sample(s)	Judgment	
FCC 15.207(a)	Conducted Emission	HC-C-202409-0168-01-01#	PASS	N/A
CC 15.209 & 15.247(d)	Radiated Unwanted Emissions	HC-C-202409-0168-01-01#	PASS	N/A
FCC 15.203	Antenna Requirement	HC-C-202409-0168-01-02#	PASS	N/A
FCC 15.247(a)	99% Occupied Bandwidth & 20dB Bandwidth	HC-C-202409-0168-01-02#	PASS	N/A
FCC 15.247(b)(1)	Peak Output Power	HC-C-202409-0168-01-02#	PASS	N/A
FCC 15.247(a)(1)	Carrier frequency separation	HC-C-202409-0168-01-02#	PASS	N/A
FCC 15.247(a)(1)	Time of occupancy	HC-C-202409-0168-01-02#	PASS	N/A
FCC 15.247(a)(1)	Number of Hopping Frequency	HC-C-202409-0168-01-02#	PASS	N/A
FCC 15.247(d)	Band Edge	HC-C-202409-0168-01-02#	PASS	N/A
FCC 15.207(a)	Conducted Unwanted Emissions	HC-C-202409-0168-01-02#	PASS	N/A
FCC 15.205	Emissions in Restricted Bands	HC-C-202409-0168-01-02#	PASS	N/A
	On Time and Duty Cycle	HC-C-202409-0168-01-02#	/	N/A

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
RF Conducted Measurement	MTS-8310	MWRFtest	V2.0.0.0
RF Test System	JS1120	Tonscend	V2.6.88.0336





Report No.: TBR-C-202409-0168-2 Page: 13 of 58

4. Test Equipment and Test Site

	Test Site			
No.	Test Site	Manufacturer	Specification	Used
TB-EMCSR001	Shielding Chamber #1	YIHENG	7.5*4.0*3.0 (m)	√
TB-EMCSR002	Shielding Chamber #2	YIHENG	8.0*4.0*3.0 (m)	V
TB-EMCCA001	3m Anechoic Chamber #A	ETS	9.0*6.0*6.0 (m)	V
TB-EMCCB002	3m Anechoic Chamber #B	YIHENG	9.0*6.0*6.0 (m)	√

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jun. 17, 2024	Jun. 16, 2025
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jun. 17, 2024	Jun. 16, 2025
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jun. 17, 2024	Jun. 16, 2025
LISN	Rohde & Schwarz	ENV216	101131	Jun. 17, 2024	Jun. 16, 2025
ISN	SCHWARZBECK	NTFM 8131	8131-193	Jun. 17, 2024	Jun. 16, 2025
ISN	SCHWARZBECK	CAT3 8158	cat3 5158-0094	Jun. 17, 2024	Jun. 16, 2025
ISN	SCHWARZBECK	NTFM5158	NTFM5158 0145	Jun. 17, 2024	Jun. 16, 2025
ISN	SCHWARZBECK	CAT 8158	cat5 8158-179	Jun. 17, 2024	Jun. 16, 2025
Radiation Emiss	ion Test (A Site)				
Equipment	Equipment	Equipment	Equipment	Equipment	Equipment
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 17, 2024	Jun. 16, 2025
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jun. 17, 2024	Jun. 16, 2025
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Feb. 27, 2024	Feb.26, 2026
Horn Antenna	ETS-LINDGREN	3117	00143207	Feb. 27, 2024	Feb.26, 2026
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 27, 2024	Feb.26, 2026
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 14, 2024	Jun. 13, 2026
Pre-amplifier	SONOMA	310N	185903	Feb. 23, 2024	Feb.22, 2025
Pre-amplifier	HP	8449B	3008A00849	Feb. 23, 2024	Feb.22, 2025
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Feb. 27, 2024	Feb.26, 2026
Radiation Emiss	ion Test (B Site)				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 29, 2024	Aug. 28, 2025
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 17, 2024	Jun. 16, 2025





Report No.: TBR-C-202409-0168-2 Page: 14 of 58

EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 23, 2024	Feb.22, 2025
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Nov. 13, 2023	Nov. 12, 2025
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Jun. 14, 2024	Jun. 13, 2026
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 27, 2024	Feb.26, 2026
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 14, 2024	Jun. 13, 2026
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Aug. 29, 2024	Aug. 28, 2025
HF Amplifier	Tonscend	TAP051845	AP21C806141	Aug. 29, 2024	Aug. 28, 2025
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 29, 2024	Aug. 28, 2025
Highpass Filter	CD	HPM-6.4/18G	-	N/A	N/A
Highpass Filter	CD	HPM-2.8/18G	THE RESERVE	N/A	N/A
Highpass Filter	XINBO	XBLBQ-HTA67(8-25G)	22052702-1	N/A	N/A
Antenna Conducte	ed Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 17, 2024	Jun. 16, 2025
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110172	Aug. 29, 2024	Aug. 28, 2025
MXA Signal Analyzer	Agilent	N9020A	MY47380425	Aug. 29, 2024	Aug. 28, 2025
Vector Signal Generator	Agilent	N5182A	MY50141294	Aug. 29, 2024	Aug. 28, 2025
Analog Signal Generator	Agilent	N5181A	MY48180463	Aug. 29, 2024	Aug. 28, 2025
Vector Signal Generator	KEYSIGHT	N5182B	MY59101429	Aug. 29, 2024	Aug. 28, 2025
Analog Signal Generator	KEYSIGHT	N5173B	MY61252685	Aug. 29, 2024	Aug. 28, 2025
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Aug. 29, 2024	Aug. 28, 2025
DE Davis Casas	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Aug. 29, 2024	Aug. 28, 2025
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Aug. 29, 2024	Aug. 28, 2025
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Aug. 29, 2024	Aug. 28, 2025
RF Control Unit	Tonsced	JS0806-1	21C8060380	N/A	N/A
RF Control Unit	Tonsced	JS0806-2	21F8060439	Aug. 29, 2024	Aug. 28, 2025
Power Control Box	Tonsced	JS0806-4ADC	21C8060387	N/A	N/A
Wideband Radio Comunication Tester	Rohde & Schwarz	CMW500	144382	Aug. 29, 2024	Aug. 28, 2025
Universal Radio Communication Tester	Rohde&Schwarz	CMW500	168796	Feb. 23, 2024	Feb.22, 2025
Temperature and Humidity Chamber	ZhengHang	ZH-QTH-1500	ZH2107264	Jun. 14, 2024	Jun. 13, 2026





Page: 15 of 58

5. Conducted Emission

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.207

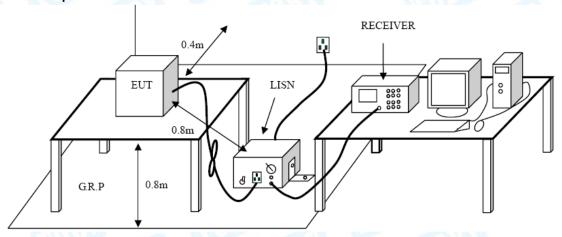
5.1.2 Test Limit

Fragueney	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.2 Test Setup



5.3 Test Procedure

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- ●I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- ●LISN at least 80 cm from nearest part of EUT chassis.





Page: 16 of 58

● The bandwidth of EMI test receiver is set at 9 kHz, and the test frequency band is from 0.15MHz to 30MHz.

5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Mode

Please refer to the description of test mode.

5.6 Test Data

Please refer to the Attachment A inside test report.





Page: 17 of 58

6. Radiated and Conducted Unwanted Emissions

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.209 & FCC Part 15.247(d)

6.1.2 Test Limit

General field strength limits at frequencies Below 30MHz		
Frequency	Field Strength	Measurement Distance
(MHz)	(microvolt/meter)**	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30

Note: 1, The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

General field s	General field strength limits at frequencies above 30 MHz		
Frequency	Field strength	Measurement Distance	
(MHz)	(µV/m at 3 m)	(meters)	
30~88	100	3	
88~216	150	3	
216~960	200	3	
Above 960	500	3	

General field strength limits at frequencies Above 1000MHz			
Distance of 3m (dBuV/m)			
Peak	Average		
74	54		
	Distance of 3r		

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

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



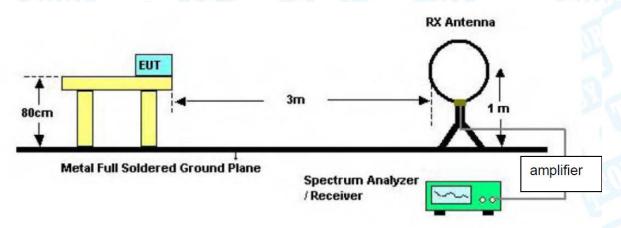


Page: 18 of 58

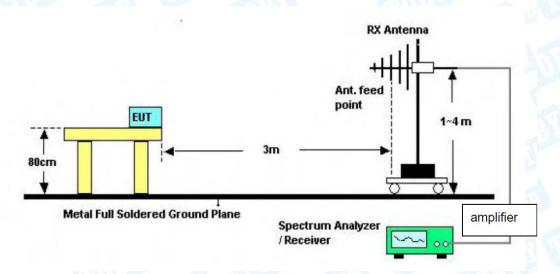
transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

6.2 Test Setup

Radiated measurement



Below 30MHz Test Setup

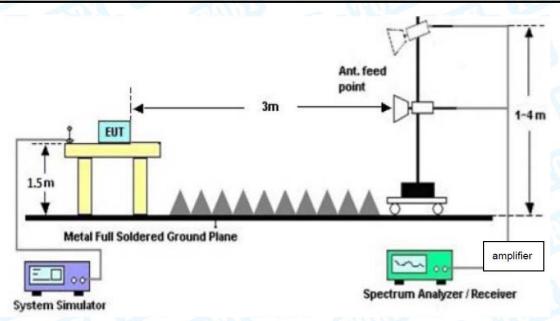


Below 1000MHz Test Setup

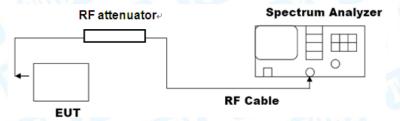




Page: 19 of 58



Above 1GHz Test Setup Conducted measurement



6.3 Test Procedure

---Radiated measurement

- The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Below 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode





Page: 20 of 58

measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.

- Testing frequency range 30MHz-1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection. Testing frequency range 9KHz-150Hz the measuring instrument use VBW=200Hz with Quasi-peak detection. Testing frequency range 9KHz-30MHz the measuring instrument use VBW=9kHz with Quasi-peak detection.
- ●Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- For the actual test configuration, please see the test setup photo.





Page: 21 of 58

--- Conducted measurement

Reference level measurement

Establish a reference level by using the following procedure:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to≥1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW≥[3*RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Emission level measurement

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW≥[3*RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Mode

Please refer to the description of test mode.

6.6 Test Data

Radiated measurement please refer to the Attachment B inside test report.

Conducted measurement please refer to the Appendix A.



Page: 22 of 58

7. Emissions in Restricted Bands

7.1 Test Standard and Limit

7.1.1 Test Standard

FCC Part 15.205 & FCC Part 15.247(d)

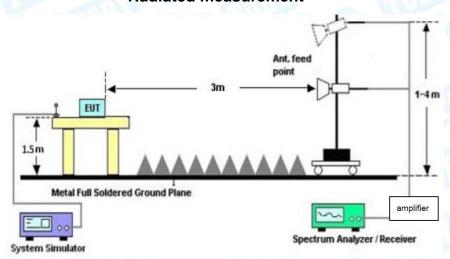
7.1.2 Test Limit

Restricted Frequency	Distance Meters(at 3m)	
Band (MHz)	Peak (dBuV/m)	Average (dBuV/m)
2310 ~2390	74	54
2483.5 ~2500	74	54
	Peak (dBm)see 7.3 e)	Average (dBm) see 7.3 e)
2310 ~2390	-41.20	-21.20
2483.5 ~2500	-41.20	-21.20

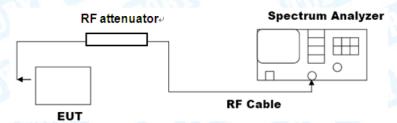
Note: According the ANSI C63.10 11.12.2 antenna-port conducted measurements may also be used as an alternative to radiated measurements for determining compliance in the restricted frequency bands requirements. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test forcabinet/case emissions is required.

7.2 Test Setup

Radiated measurement



Conducted measurement







Page: 23 of 58

7.3 Test Procedure

---Radiated measurement

- Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- ●The Peak Value and average value both need to comply with applicable limit above 1 GHz.
- Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- For the actual test configuration, please see the test setup photo.

--- Conducted measurement

- a) Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 11.12.2.3 through 11.12.2.5 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP (see 11.12.2.6 for guidance on determining the applicable antenna gain).
- c) Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies \leq 30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies > 1000 MHz).
- d) For MIMO devices, measure the power of each chain and sum the EIRP of all chains in linear terms (i.e., watts and mW).
- e) Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

 $E = EIRP-20 \log d + 104.8$

where

E is the electric field strength in dBuV/m





Page: 24 of 58

EIRP is the equivalent isotropically radiated power in dBm *d* is the specified measurement distance in m

- f) Compare the resultant electric field strength level with the applicable regulatory limit.
- g) Perform the radiated spurious emission test.





Page: 25 of 58

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Mode

Please refer to the description of test mode.

7.6 Test Data

Remark: The test uses antenna-port conducted measurements as an alternative to radiated measurements for determining compliance in the restricted frequency bands requirements.

Please refer to the Appendix B.





Page: 26 of 58

8. 99% Occupied and 20dB Bandwidth

8.1 Test Standard and Limit

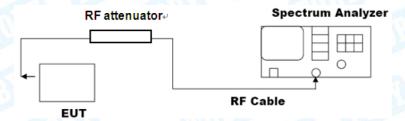
8.1.1 Test Standard

FCC Part 15.205 & FCC Part 15.247(a)

8.1.2 Test Limit

For an FHSS system operating in the 2400 to 2483.5 MHz band, there are no limits for 20dB bandwidth and 99% occupied bandwidth.

8.2 Test Setup



8.3 Test Procedure

- The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:
- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data





Page: 27 of 58

points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

8.4 Deviation From Test Standard

No deviation

8.5 EUT Operating Mode

Please refer to the description of test mode.

8.6 Test Data

Please refer to the Appendix A.





Page: 28 of 58

9. Peak Output Power Test

9.1 Test Standard and Limit

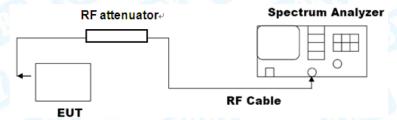
9.1.1 Test Standard

FCC Part 15.247(b)(1)

9.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
3 THUS	<i>P</i> max-pk ≤ 1 W	
	Nch ≥ 75	
	f ≥ MAX { 25 kHz, BW _{20dB} }	
	max. BW20dB not specified	
000	t ch ≤ 0.4 s for $T = 0.4$ * N ch	
Peak Output Power	<i>P</i> max-pk ≤ 0.125 W	2400~2483.5
	Nch ≥ 15	
	f ≥ [MAX{25 kHz, 0.67*BW _{20dB} }	
4000	OR MAX{25 kHz, BW20dB}]	
	max. BW20dB not specified	
	t ch ≤ 0.4 s for $T = 0.4$ * N ch	
	ecupancy; $T = \text{period}$; $N_{\text{ch}} = \#$ hopping f f = hopping channel carrier frequency s	

9.2 Test Setup



9.3 Test Procedure

- ●This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:
- a) Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW≥ RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.





Page: 29 of 58

- 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report.

NOTE-A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

9.4 Deviation From Test Standard

No deviation

9.5 EUT Operating Mode

Please refer to the description of test mode.

9.6 Test Data

Please refer to the Appendix A.





Page: 30 of 58

10. Carrier frequency separation

10.1 Test Standard and Limit

10.1.1 Test Standard

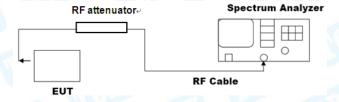
FCC Part 15.247(a)(1)

10.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
110	<i>P</i> max-pk ≤ 1 W	
mn33	<i>N</i> _{ch} ≥ 75	
	f ≥ MAX { 25 kHz, BW20dB }	
7	max. BW20dB not specified	THE PARTY OF THE P
Carrier frequency	<i>t</i> ch ≤ 0.4 s for $T = 0.4*N$ ch	Will work
Carrier frequency	<i>P</i> max-pk ≤ 0.125 W	2400~2483.5
separation	Nch ≥ 15	A THURSDAY
	f ≥ [MAX{25 kHz, 0.67*BW _{20dB} }	
4000	OR MAX{25 kHz, BW20dB}]	
an B	max. BW20dB not specified	A PLUM BY
	$tch \le 0.4 \text{ s for } T = 0.4*Nch$	

f = hopping channel carrier frequency separation

10.2 Test Setup



10.3 Test Procedure

- ●The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:
- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW) ≥ RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.





Page: 31 of 58

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

10.4 Deviation From Test Standard

No deviation

10.5 Antenna Connected Construction

Please refer to the description of test mode.

10.6 Test Data

Please refer to the Appendix A.





Page: 32 of 58

11. Time of occupancy (dwell time)

11.1 Test Standard and Limit

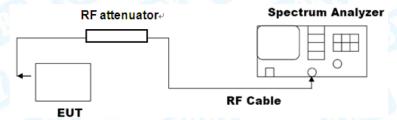
11.1.1 Test Standard

FCC Part 15.247(a)(1)

11.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
A NULL	P _{max-pk} ≤ 1 W	WOD?
WB 7	<i>N</i> _{ch} ≥ 75	
	f≥MAX { 25 kHz, BW20dB }	
	max. BW20dB not specified	
Time of accompany	<i>t</i> ch ≤ 0.4 s for <i>T</i> = 0.4* <i>N</i> ch	
Time of occupancy	<i>P</i> max-pk ≤ 0.125 W	2400~2483.5
(dwell time)	Nch ≥ 15	
	f ≥ [MAX{25 kHz, 0.67*BW _{20dB} }	
	OR MAX{25 kHz, BW20dB}]	
an B	max. BW20dB not specified	
1	<i>t</i> ch ≤ 0.4 s for <i>T</i> = 0.4* <i>N</i> ch	

11.2 Test Setup



11.3 Test Procedure

- The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:
- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be \Box channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
- c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed





Page: 33 of 58

with a longer sweep time to show two successive hops on a channel.

d) Detector function: Peak.

e) Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer)x(period specified in the requirements / analyzer sweep time)

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

11.4 Deviation From Test Standard

No deviation

11.5 Antenna Connected Construction

Please refer to the description of test mode.

11.6 Test Data

Please refer to the Appendix A.





Page: 34 of 58

12. Number of hopping frequencies

12.1 Test Standard and Limit

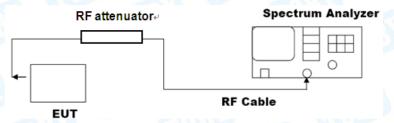
12.1.1 Test Standard

FCC Part 15.247(a)(1)

12.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
Carrier frequency separation	<i>P</i> max-pk ≤ 1 W	
	N _{ch} ≥ 75	
	f ≥ MAX { 25 kHz, BW20dB }	
	max. BW20dB not specified	
	tch ≤ 0.4 s for $T = 0.4*N$ ch	
	<i>P</i> max-pk ≤ 0.125 W	2400~2483.5
	Nch ≥ 15	
	f ≥ [MAX{25 kHz, 0.67*BW _{20dB} }	
	OR MAX{25 kHz, BW20dB}]	
	max. BW20dB not specified	
	t ch ≤ 0.4 s for $T = 0.4*N$ ch	

12.2 Test Setup



f = hopping channel carrier frequency separation

12.3 Test Procedure

- ●The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:
- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c) VBW ≥ RBW.
- d) Sweep: Auto.





Page: 35 of 58

e) Detector function: Peak.

f) Trace: Max hold.

g) Allow the trace to stabilize.

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies.

Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

12.4 Deviation From Test Standard

No deviation

12.5 Antenna Connected Construction

Please refer to the description of test mode.

12.6 Test Data

Please refer to the Appendix A.





Page: 36 of 58

13. Antenna Requirement

13.1 Test Standard and Limit

11.1.1 Test Standard

FCC Part 15.203

11.1.2 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 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.

13.2 Deviation From Test Standard

No deviation

13.3 Antenna Connected Construction

The gains of the antenna used for transmitting is -1dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

13.4 Test Data

The EUT antenna is a Wire Antenna. It complies with the standard requirement.

Antenna Type		
☑Permanent attached antenna		
Unique connector antenna		
☐Professional installation antenna		





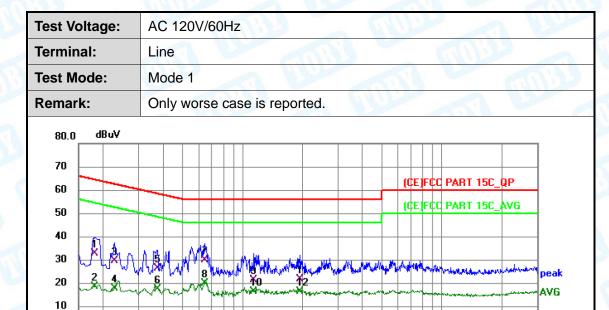
30.000

48 %RH

Humidity:

Page: 37 of 58

Attachment A-- Conducted Emission Test Data



(MHz)

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector
1	0.181	23.09	9.54	32.63	64.44	-31.81	QP
2	0.181	8.73	9.54	18.27	54.44	-36.17	AVG
3	0.227	19.91	9.51	29.42	62.56	-33.14	QP
4	0.227	8.30	9.51	17.81	52.56	-34.75	AVG
5	0.375	16.96	9.46	26.42	58.39	-31.97	QP
6	0.375	7.76	9.46	17.22	48.39	-31.17	AVG
7	0.645	20.41	9.48	29.89	56.00	-26.11	QP
8 *	0.645	10.45	9.48	19.93	46.00	-26.07	AVG
9	1.135	11.79	9.63	21.42	56.00	-34.58	QP
10	1.135	6.71	9.63	16.34	46.00	-29.66	AVG
11	1.932	11.91	9.59	21.50	56.00	-34.50	QP
12	1.932	6.78	9.59	16.37	46.00	-29.63	AVG

Remark:

0 -10

0.150

Temperature:

0.3

24.5 ℃

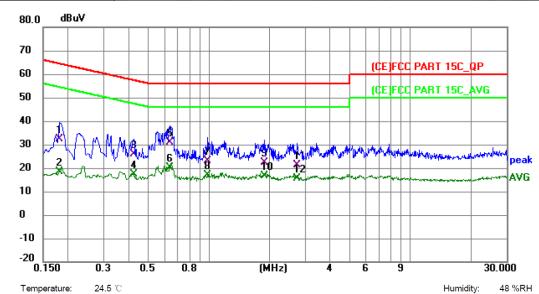
- 1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)





Page: 38 of 58

3	Test Voltage:	AC 120V/60Hz
N	Terminal:	Neutral
	Test Mode:	Mode 1
	Remark:	Only worse case is reported.



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBu∀	dBu∨	dB	Detector
1	0.181	22.84	9.52	32.36	64.44	-32.08	QP
2	0.181	8.77	9.52	18.29	54.44	-36.15	AVG
3	0.420	16.59	9.47	26.06	57.45	-31.39	QP
4	0.420	7.89	9.47	17.36	47.45	-30.09	AVG
5 *	0.640	21.33	9.48	30.81	56.00	-25.19	QP
6	0.640	10.58	9.48	20.06	46.00	-25.94	AVG
7	0.987	13.57	9.47	23.04	56.00	-32.96	QP
8	0.987	7.38	9.47	16.85	46.00	-29.15	AVG
9	1.878	12.86	9.49	22.35	56.00	-33.65	QP
10	1.878	7.09	9.49	16.58	46.00	-29.42	AVG
11	2.747	11.76	9.56	21.32	56.00	-34.68	QP
12	2.747	5.91	9.56	15.47	46.00	-30.53	AVG

Remark

- 1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
- 2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)





Page: 39 of 58

Attachment B--Unwanted Emissions Data

---Radiated Unwanted Emissions

9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB Below the permissible value has no need to be reported.

30MHz~1GHz

emperature:	23.5℃		Rela	tive Humidity	: 469	%	
est Voltage:	AC 12	0V/60Hz		ans)		an.	1120
nt. Pol.	Horizo	ntal		Con .			
est Mode:	Mode	1	MARINE				1
emark:	Only w	orse cas	e is reported	Will some		CHUR	
80.0 dBuV/m							
					FCC	15C 3M Radiation	n
						Margin -6	dB
30						5	6 X
					4	manhar	WALL OF THE PARTY
*			2	3 X	Merry	Wari	
What was	mmhmm	montagen	2 ~~***********************************	my migrorian			
-20							
30.000 40	50 60	70 80	(MHz)	300	400 5	00 600 700	1000.000
No Mic	Гиан	Readir			Limit	Over	
No. Mk.	Freq.	Level	Factor				
	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1 30	0.2111	25.22	-7.47	17.75	40.00	-22.25	peak
2 11	4.5146	27.02	-15.66	11.36	43.50	-32.14	peak
3 22	4.5193	27.81	-13.09	14.72	46.00	-31.28	peak
4 46	5.5994	27.28	-5.54	21.74	46.00	-24.26	peak
5 * 73	9.6604	27.84	0.47	28.31	46.00	-17.69	peak
6 96	5.5421	26.95	4.67	31.62	54.00	-22.38	peak
0 90	J.J421	20.90	4.07	31.02	J 4 .00	-22.30	μ c a

Remark:

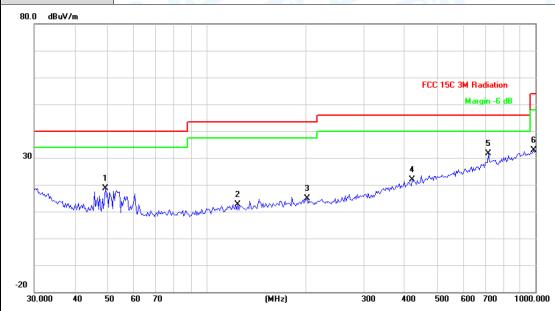
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dB μ V/m)-Limit QPK(dB μ V/m)





Report No.: TBR-C-202409-0168-2 Page: 40 of 58

Temperature:	23.5℃	Relative Humidity:	46%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		(1)
Test Mode:	Mode 1	And the second	
Remark:	Only worse case is	reported.	



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		49.3594	35.07	-16.37	18.70	40.00	-21.30	peak
2		124.5690	28.23	-15.59	12.64	43.50	-30.86	peak
3		202.1005	28.08	-13.17	14.91	43.50	-28.59	peak
4		422.0577	28.36	-6.52	21.84	46.00	-24.16	peak
5	*	719.1995	31.40	0.35	31.75	46.00	-14.25	peak
6		986.0717	27.79	5.19	32.98	54.00	-21.02	peak

^{*:}Maximum data x:Over limit !:over margin

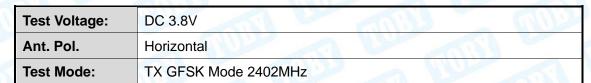
- Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
 QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = QuasiPeak (dB μ V/m)-Limit QPK(dB μ V/m)

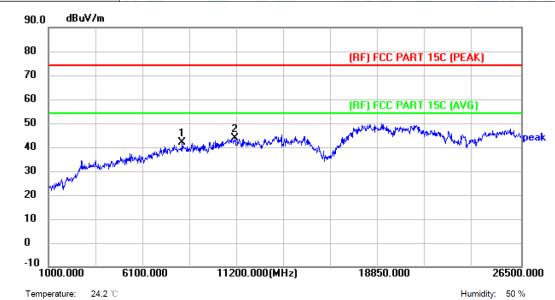




Page: 41 of 58

Above 1-25GHz





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	8216.500	48.82	-7.03	41.79	74.00	-32.21	peak
2 *	11072.500	43.58	0.14	43.72	74.00	-30.28	peak

Remark:

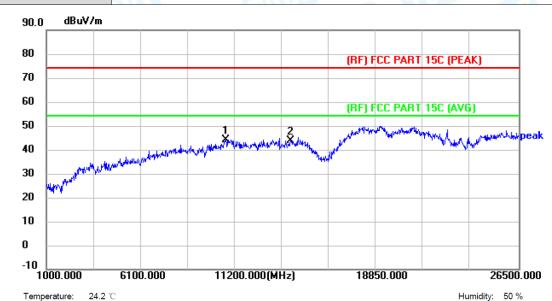
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





Page: 42 of 58

Ñ	Test Voltage:	DC 3.8V	
	Ant. Pol.	Vertical	A STORES
	Test Mode:	TX GFSK Mode 2402MHz	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	10690.000	44.68	-0.65	44.03	74.00	-29.97	peak
2	14183.500	40.91	2.80	43.71	74.00	-30.29	peak

Remark:

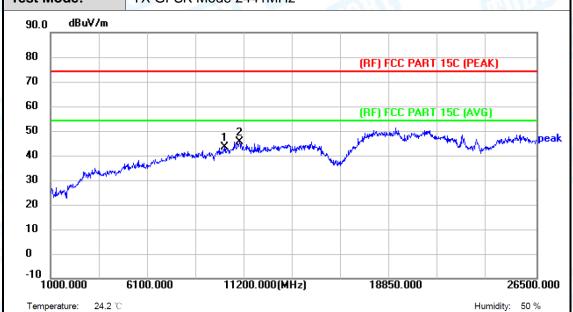
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m)
- 4. The tests evaluated 1-26.5 GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





Page: 43 of 58

Test Voltage:	DC 3.8V	Alle
Ant. Pol.	Horizontal	
Test Mode:	TX GFSK Mode 2441MHz	ani N



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10129.000	45.42	-1.95	43.47	74.00	-30.53	peak
2 *	10919.500	45.58	-0.13	45.45	74.00	-28.55	peak

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dB μ V/m)= Corr. (dB/m)+ Read Level (dB μ V) 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





Page: 44 of 58

Vertical TX GFSK	Mode 2	441MHz	A Company	<u>ann</u>	6	nBT		
TX GFSK	Mode 2	441MHz	ST.			URE		1
				(BE) E	CC PART	15C (PEA	(K)	
				()	CCTAIT	130 (1 22	iikj	
				(RF) F	CC PART	15C (AV6	i)	
	ţ	2		- Andrewsky	and a province of the second	udahank ku k	Part War a	peak
AND STREET, WARREN	and the state of t	hapan <mark>aka</mark> produkt		A CONTRACTOR OF THE PARTY OF TH		A Abruff	hill a	heav
6100.000	1120	00.000(MHz	z)	188	50.000		26500	 .000
				5100.000 11200.000(MHz)	And the second s	2 Company of the second of the	3100.000 11200.000(MHz) 18850.000	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	10970.500	44.49	-0.02	44.47	74.00	-29.53	peak
2	12398.500	40.77	1.57	42.34	74.00	-31.66	peak

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.6. The average measurement was not performed when the peak measured data under the limit of average detection.





Humidity: 50 %

Page: 45 of 58

Test Vo	oltage:	DC 3.8	V							
Ant. Po	ol.	Horizor	ntal	13			1)			1 33
Test M	ode:	TX GF	SK Mode 2	480MHz	N. P.		61	UP		A
90.0	dBuV/m									1
80						(BF) F	CC PART	15C (PEA	ıK)	
70									,	
60						(RF) F	CC PART	15C (AVE	i)	
50			J	. 3			ith was a show			no al
40		aspert states and the	Antonia markata maila maila de la companya de la co	ndujek jekselegi	LIGHT-IN-NO-THE-BANK			. 20/144/1	V	pear
30	A CONTRACTOR	MANAGE TO THE STATE OF THE STAT			"					
20	MW.A									
10										
0										
-10 10	000.000	6100.000	112	200.000(MH	lzì	199	50.000		26500	 NNN

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)		Detector
1	10868.500	44.81	-0.25	44.56	74.00	-29.44	peak
2 *	13520.500	42.67	2.20	44.87	74.00	-29.13	peak

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

Temperature: 24.2 °C

- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





26500.000

Humidity: 50 %

Page: 46 of 58

Test Vo	oltage:	DC 3.8V								
Ant. Po	ol.	Vertical		33			11/1			1) 550
Test M	ode:	TX GFSK	Mode 2	2480MH	Z		<u> </u>			A
90.0	dBuV/m									
80						(BE) I	CC PART	15C (PEA	UK)	
70						(111)	CCTAIT	130 (122	ikj	
60						(RF) I	CC PART	15C (AV	3)	
50			J	. 2		بالمفاوليسور	aPPROGRAMAL APPROXI	Marie .	rigger metalogist was a	peak
40		A carrier of the spring by the state of the	O JANGE OF PRINCIPLE	igraginas galapital, at 194	Marka Ma Marka Marka Ma	ar and a second			W ^{CCC}	
30	graphy and a	and the second of the second o								
20	ny s									
10										

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)		Detector
1	10970.500	44.29	-0.02	44.27	74.00	-29.73	peak
2 *	12781.000	42.63	1.69	44.32	74.00	-29.68	peak

18850.000

11200.000(MHz)

1000.000

Temperature: 24.2 ℃

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

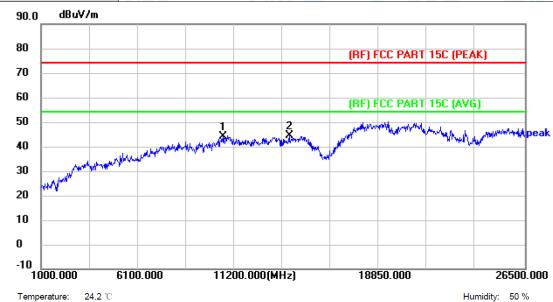
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.6. The average measurement was not performed when the peak measured data under the limit of average detection.





Page: 47 of 58

Test Volta	ge: DC 3.8V
Ant. Pol.	Horizontal
Test Mod	E: TX π/4-DQPSK Mode 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	10588.000	45.09	-0.89	44.20	74.00	-29.80	peak
2 *	14081.500	41.60	2.70	44.30	74.00	-29.70	peak

Remark

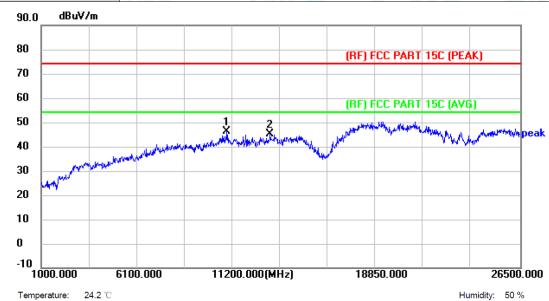
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





Page: 48 of 58

Test Voltage:	DC 3.8V	
Ant. Pol.	Vertical	VIII U
Test Mode:	TX π/4-DQPSK Mode 2402MHz	
ann dRuV/m		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	10894.000	46.35	-0.19	46.16	74.00	-27.84	peak
2	13189.000	43.12	1.92	45.04	74.00	-28.96	peak

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





Humidity: 50 %

Page: 49 of 58

Test \	/oltage:	DC 3.8V							
Ant. F	Pol.	Horizonta	I ANTHA			1)		A.B.	155
Test N	Mode:	TX π/4-I	DQPSK Mode	2441MH	Z	61	MARK	9	A
90.0	dBuV/m								
80					(RE) E	CC PART	15C (PEA	K)	
70					(111) 1	CCTAIII	130 (1 62	ik)	
60					(RF) F	CC PART	15C (AVE		
50			Į.	3		······································			l
40		h al why of property and	Many Hillington of the stronger when	Kan mark was	A PART OF THE PART			Market I - A	JEAK
30	Complete State of the Complete	M. Constant							
20	WAN.								
10									
0									
-10	100.000	6100.000	11200.000			50.000		26500.	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	11302.000	43.41	0.47	43.88	74.00	-30.12	peak
2 *	13469.500	42.59	2.16	44.75	74.00	-29.25	peak

Temperature:

24.2 ℃

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

- Con. = Antenna ractor (dB/m) + Cable Loss (dB)
 Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
 Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





Humidity: 50 %

Page: 50 of 58

Test V	oltage:	D	C 3.8V								
Ant. P	ol.	Ve	ertical		33		ON!	11800			Mas
Test N	Mode:	T	(π/4-[DQPSK	Mode 2	441MH	Z				
90.0	dBuV/m										
80							(RE) I	CC PART	15C (PE)	AK)	
70							()	CCTAIII	150 (12)	-ikj	
60							(RF) I	CC PART	15C (AV	5)	
50				1		Ş		eny (^{Al} arania)			
40	and the state of t	دىلىدى	ماميلينواوالماميدال	a _{r-tri} p-ugabahy <mark>a</mark> ju ^{an} g	Angel printer and the second	The State of the S	South Provide	1	A.M.A.	NUMBER 1	peak
30	to dead work with	(a. Arrana	<u>"</u>								-
20	Pro_ft										
10											
0											
-10	00.000	C100	.000	110	00.000(MI	1_1	100	50.000		26500	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	10919.500	44.13	-0.13	44.00	74.00	-30.00	peak
2 *	14132.500	41.70	2.75	44.45	74.00	-29.55	peak

Remark:

Temperature: 24.2 ℃

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

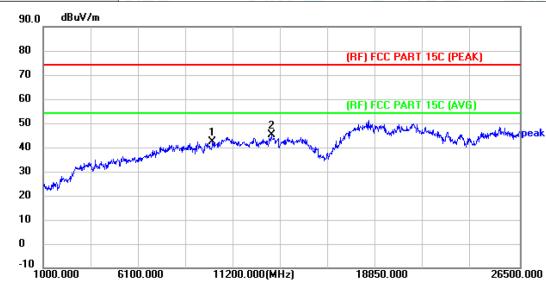
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





Page: 51 of 58

Test Voltage:	DC 3.8V	
Ant. Pol.	Horizontal	
Test Mode:	TX π/4-DQPSK Mode 2480MHz	



Temperature: 24.2 $^{\circ}$ Humidity: 50 $^{\circ}$

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	10052.500	44.32	-2.12	42.20	74.00	-31.80	peak
2 *	13214.500	43.19	1.95	45.14	74.00	-28.86	peak

Remark

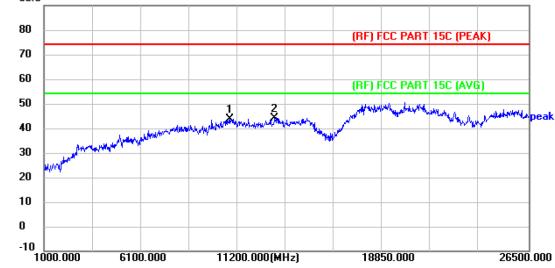
- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





Page: 52 of 58

AND THE PERSON	
Test Voltage:	DC 3.8V
Ant. Pol.	Vertical
Test Mode:	TX π/4-DQPSK Mode 2480MHz
90.0 dBuV/m	
80	(RF) FCC PART 15C (PEAK)
70	



Humidity: 50 % Temperature: 24.2 ℃

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10792.000	44.30	-0.42	43.88	74.00	-30.12	peak
2 *	13138.000	42.22	1.88	44.10	74.00	-29.90	peak

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m) 4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





26500.000

Page: 53 of 58

Test Volta	age:	DC 3.8V									
Ant. Pol.		Horizontal									
Test Mod	le:	TX 8-DPSK Mode 2402MHz									
90.0	dBuV/m										1
80							(BE) I	CC PART	15C (PFA	K)	
70							()	CC TAIT	100 (127	к)	
60							(RF) I	CC PART	15C (AVG)	
50				Į.	Ş			+dia/pp/laplado/	_		peak
40	und appropri	Landary Allegan	والموادات والمالية	MA AND AND AND AND AND AND AND AND AND AN	mytymush seft	and the state of t	port of the same o			ALTERNATION OF THE	
20	والمعالمان المعارفة	tr.									l l

Temperature: 24.2 ℃ Humidity: 50 %

18850.000

11200.000(MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	10970.500	44.35	-0.02	44.33	74.00	-29.67	peak
2 *	13291.000	42.98	2.00	44.98	74.00	-29.02	peak

20 10 0

1000.000

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

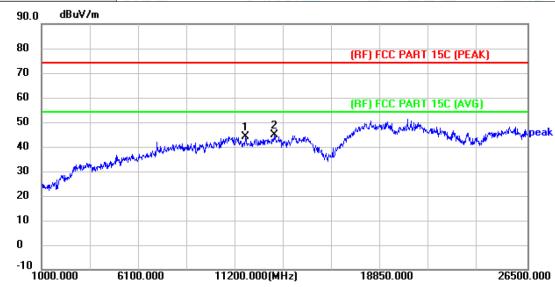




Humidity: 50 %

Page: 54 of 58

S.	Test Voltage:	DC 3.8V
	Ant. Pol.	Vertical
	Test Mode:	TX 8-DPSK Mode 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11710.000	43.09	1.05	44.14	74.00	-29.86	peak
2 *	13214.500	42.71	1.95	44.66	74.00	-29.34	peak

Remark:

Temperature:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

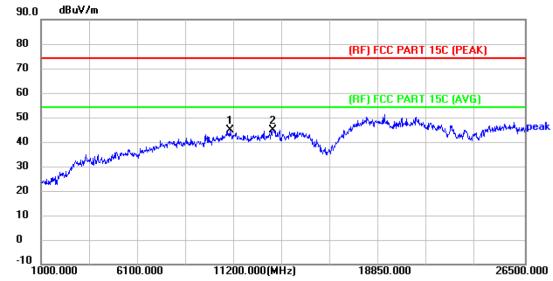




Humidity: 50 %

Page: 55 of 58

Test Voltage:	DC 3.8V	ATTE
Ant. Pol.	Horizontal	Alle
Test Mode:	TX 8-DPSK Mode 2441MHz	
90.0 dBuV/m		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	10945.000	44.97	-0.08	44.89	74.00	-29.11	peak
2 *	13214.500	43.00	1.95	44.95	74.00	-29.05	peak

Remark:

Temperature:

24.2 ℃

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





26500.000

Page: 56 of 58

Test \	/oltage:		DC 3.8V		2	HU	300				M
Ant. F	Pol.		Vertical		35		CA.			I B	VI SE
Test N	/lode:		TX 8-DP	SK Mod	e 2441N	ЛНz			MINIS		_
90.0	dBuV/n	n									
80							(DE)	CC DADT	15C (PEA	(r)	
70							(nr)	CC FANT	130 (FEA	ikj	
60							(BF)	CC PART	15C (AV6	ii	
50				1 3				_	Lamenta, Maria		naak
40		4.4	ant with the second second	A Mary Land	والمراجعة المراجعة ا	Aphrophika.	and the second	"		Allegan Strategic Strategi	peak
30	ومواسخ مراص در	Anima de La Carriera									
20	үмү										

Humidity: 50 % Temperature: 24.2 ℃

18850.000

11200.000(MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	8854.000	48.24	-6.13	42.11	74.00	-31.89	peak
2 *	11047.000	45.61	0.12	45.73	74.00	-28.27	peak

Remark:

10 0

1000.000

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

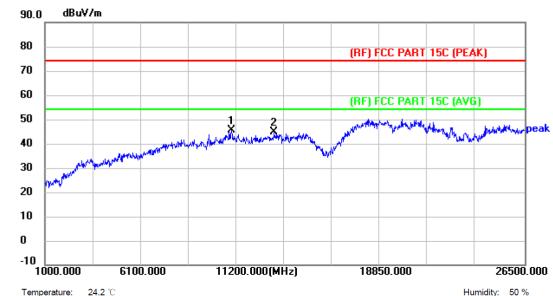
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m) 4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





Page: 57 of 58

Test Voltage:	DC 3.8V	
Ant. Pol.	Horizontal	P. C.
Test Mode:	TX 8-DPSK Mode 2480MHz	
90.0 dBuV/m		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	10919.500	45.58	-0.13	45.45	74.00	-28.55	peak
2	13189.000	42.80	1.92	44.72	74.00	-29.28	peak

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- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
- 4. The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.





Page: 58 of 58

Test Voltage: Ant. Pol.		DC 3.8V Vertical								
									est M	lode:
90.0	dBuV/m									
80						(RF) F	CC PART	15C (PEA	(K)	
70						()		100 (12.		
60							CC PART			
50	makery and the state of the state of		1.	2	i subsi	A Parket Services	takit _{pad} ingubika	rhayk in.	_pa/assan/No	peak
40		Markett Braghthan M. Jahrey	Mary Mark Branch	baselender (VPP Billion	Manage Market	p ^{ero}		ין יאין	yr	
30	where the state of									
20	, , , , , , , , , , , , , , , , , , ,									
10										
0										
-10 10	000.000	6100.000	112	00.000(MHz	2)	188	50.000		26500]).000
Tempe	erature: 24.2 °C							Hu	ımidity: 50 °	%

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)		Detector
1	10282.000	44.35	-1.60	42.75	74.00	-31.25	peak
2 *	12296.500	42.76	1.54	44.30	74.00	-29.70	peak

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
 The tests evaluated1-26.5GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
- 5. No report for the emission which more than 20dB below the prescribed limit.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

END OF REPORT----

