TEST REPORT



DT&C Co., Ltd.

42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea,17042 Tel: 031-321-2664, Fax: 031-321-1664

1. Report No: DRTFCC2106-0065

2. Customer

• Name (FCC): AMOSENSE / Name (IC): AMOSENSE CO.,LTD.

Address (FCC): 19-1BL, 90, 4Sandan 5 gil, Jiksan-eup Cheonan-Si, Chungcheongnam-Do South Korea
 Address (IC): 19-1BL, 90, 4sandan 5-gil, Jiksan-eup Cheonan-si Chungcheongnam-do 31040 Korea
 (Republic Of)

3. Use of Report: FCC & IC Original Grant

4. Product Name / Model Name : UNIT ASSY-WRLS / ASBLEM00

FCC ID: 2AS9T-ASBLEM

IC: 27298-ASBLEM

FCC Regulation(s): Part 15.247
 IC Standard(s): RSS-247 Issue 2

Test Method used: KDB558074 D01v05r02, ANSI C63.10-2013

6. Date of Test: 2021.06.07 ~ 2021.06.16

7. Location of Test: Permanent Testing Lab On Site Testing

8. Testing Environment: See appended test report.

9. Test Result: Refer to the attached test result.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test report is not related to KOLAS accreditation.

Affirmation Tested by
Name : JaeHyeok Bang

Reviewed by

Name: GeunKi Son

(Signature)

2021.06.24.

DT&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

IC: 27298-ASBLEM

Test Report Version

Test Report No.	Date	Description	Revised by	Reviewed by
DRTFCC2106-0065	Jun, 24. 2021	Initial issue	JaeHyeok Bang	GeunKi Son

Pages: 2 / 61



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1. General Information

1.1 Testing Laboratory

DT&C Co., Ltd.

The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.

The test site complies with the requirements of § 2.948 according to ANSI C63.4-2014.

- FCC & IC MRA Designation No.: KR0034

- ISED#: 5740A

www.dtnc.net		
Telephone	:	+ 82-31-321-2664
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1.2 Test Environment

Ambient Condition	
Temperature	+22 °C ~ +25 °C
Relative Humidity	+40 % ~ +43 %

1.3 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C63.4-2014 and ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95 % level of confidence.

Test items	Measurement uncertainty
Antenna-port conducted emission	0.9 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (1 GHz Below)	4.9 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (1 GHz ~ 18 GHz)	5.0 dB (The confidence level is about 95 %, k = 2)
Radiated spurious emission (18 GHz Above)	5.3 dB (The confidence level is about 95 %, k = 2)

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1.4 Details of Applicant

Applicant Name(FCC)	AMOSENSE	
Applicant Name(IC)	Name(IC) AMOSENSE CO.,LTD	
Address (FCC) 19-1BL, 90, 4Sandan 5 gil, Jiksan-eup Cheonan-Si, Chungcheongnam-D		
Address (IC) 19-1BL, 90, 4sandan 5-gil, Jiksan-eup Cheonan-si Chungcheongnam-do Korea (Republic Of)		

1.5 Description of EUT

Equipment Class	Digital Transmission System (DTS)		
Product Name	UNIT ASSY-WRLS		
Model Name	ASBLEM00		
Add Model Name	ASBLEM01		
Firmware Version Identification Number	1.0		
EUT Serial Number	Identical prototype		
Power Supply	DC 12 V		
Frequency Range	2 402 MHz ~ 2 480 MHz		
	ANT 1 2.76 dBm (0.002 W)		
Max. RF Output Power	ANT 2	0.29 dBm (0.001 W)	
Modulation Technique (Data rate)	GFSK(1 Mbps)		
Automa Carolfication	ANT 1	Antenna Type: Dielectric Chip Antenna Gain: 3.3 dBi (PK)	
Antenna Specification	ANT 2 Antenna Type: Dielectric Chip Antenna Gain: 3.3 dBi (FK)		

1.6 Declaration by the applicant / manufacturer

N/A



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1.7 Test Equipment List

Туре	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	20/12/16	21/12/16	MY50410399
Spectrum Analyzer	Agilent Technologies	N9020A	20/12/16	21/12/16	MY48011700
Spectrum Analyzer	Agilent Technologies	N9020A	20/06/24	21/06/24	US47360812
DC Power Supply	Agilent Technologies	66332A	20/06/24	21/06/24	MY43001172
Multimeter	FLUKE	17B+	20/12/16	21/12/16	3630701WS
Signal Generator	Rohde Schwarz	SMBV100A	20/12/16	21/12/16	255571
Signal Generator	ANRITSU	MG3695C	20/12/16	21/12/16	173501
Thermohygrometer	BODYCOM	BJ5478	20/12/16	21/12/16	120612-1
Thermohygrometer	BODYCOM	BJ5478	20/12/16	21/12/16	120612-2
Thermohygrometer	BODYCOM	BJ5478	20/07/01	21/07/01	N/A
Loop Antenna	ETS-Lindgren	6502	21/01/28	23/01/28	00226186
BILOG ANTENNA	Schwarzbeck	VULB 9160	20/12/16	21/12/16	3362
Horn Antenna	ETS-Lindgren	3117	20/10/23	21/10/23	00143278
PreAmplifier	tsj	MLA-0118-B01-40	20/12/16	21/12/16	1852267
PreAmplifier	H.P	8447D	20/12/16	21/12/16	2944A07774
High Pass Filter	Wainwright Instruments	WHKX12-935-1000-15000- 40SS	20/06/24	21/06/24	8
High Pass Filter	Wainwright Instruments	WHKX10-2838-3300- 18000-60SS	20/06/24	21/06/24	1
High Pass Filter	Wainwright Instruments	WHNX8.0/26.5-6SS	20/06/24	21/06/24	3
Attenuator	Hefei Shunze	SS5T2.92-10-40	20/06/24	21/06/24	16012202
Attenuator	SRTechnology	F01-B0606-01	20/06/24	21/06/24	13092403
Attenuator	Aeroflex/Weinschel	56-3	20/06/24	21/06/24	Y2370
Attenuator	SMAJK	SMAJK-2-3	20/06/24	21/06/24	2
Power Meter & Wide Bandwidth Sensor	Anritsu	ML2495A MA2490A	20/06/24	21/06/24	1306007 1249001
Cable	HUBER+SUHNER	SUCOFLEX100	21/01/08	22/01/08	M-1
Cable	HUBER+SUHNER	SUCOFLEX100	21/01/08	22/01/08	M-2
Cable	JUNFLON	MWX241/B	21/01/08	22/01/08	M-3
Cable	JUNFLON	J12J101757-00	21/01/08	22/01/08	M-7
Cable	HUBER+SUHNER	SUCOFLEX106	21/01/08	22/01/08	M-9
Cable	DTNC	Cable	21/01/08	22/01/08	G-1
Cable	DTNC	Cable	21/01/08	22/01/08	G-2
Cable	HUBER+SUHNER	SUCOFLEX 100	21/01/08	22/01/08	G-3
Cable	DTNC	Cable	21/01/08	22/01/08	G-4
Cable	DTNC	Cable	21/01/05	22/01/05	RFC-01
Test Software	tsj	Raidated Emission Measurement	NA	NA	Version 2.00.0177

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.

Note2: The cable is not a regular calibration item, so it has been calibrated by DT & C itself.

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1.8 Summary of Test Results

FCC Part	RSS Std.	Parameter	Limit	Test Condition	Status Note 1
15.247(a)	RSS-247 [5.2]	6 dB Bandwidth	> 500 kHz		С
15.247(b)	RSS-247 [5.4]	Transmitter Output Power	< 1 Watt		С
15.247(d)	RSS-247 [5.5]	Out of Band Emissions / Band Edge	20 dBc in any 100 kHz BW	Conducted	С
15.247(e)	RSS-247 [5.2]	Transmitter Power Spectral Density	< 8 dBm/3 kHz		С
-	RSS-Gen [6.7]	Occupied Bandwidth (99 %)	NA		С
15.247(d) 15.205 15.209	RSS-247 [5.5] RSS-GEN [8.9] RSS-GEN [8.10]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	FCC 15.209 limits (Refer to section 3.5)	Radiated	C Note 3
15.207	RSS-Gen [8.8]	AC Line Conducted Emissions	FCC 15.207 limits (Refer to section 3.6)	AC Line Conducted	NA Note 4
15.203	-	Antenna Requirements	FCC 15.203 (Refer to section 4)	-	С

Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable

Note 2: For radiated emission tests below 30 MHz were performed on semi-anechoic chamber which is correlated with OATS.

Note 3: This test item was performed in each axis and the worst case data was reported.

Note 4: This device is installed in a car. Therefore the power source is a battery of car.

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2. Test Methodology

The measurement procedures described in the ANSI C63.10-2013 and the guidance provided in KDB558074 D01v05r02 were used in measurement of the EUT.

The EUT was tested per the guidance of KDB558074 D01v05r02. And ANSI C63.10-2013 was used to reference appropriate EUT setup and maximizing procedures of radiated spurious emission and AC line conducted emission testing.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the test mode to fix the TX frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3 General Test Procedures

Conducted Emissions

The power-line conducted emission test procedure is not described on the KDB558074 D01v05r02.

So this test was fulfilled with the requirements in Section 6.2 of ANSI C63.10-2013.

The EUT is placed on the wooden table, which is 0.8 m above ground plane and the conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-peak and Average detector.

Radiated Emissions

Basically the radiated tests were performed with KDB558074 D01v05r02. But some requirements and procedures like test site requirements, EUT setup and maximizing procedure were fulfilled with the requirements in Section 5 and 6 of the ANSI C63.10-2013. The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the highest emission, the relative positions of the EUT were rotated through three orthogonal axes.

2.4 Description of Test Modes

The EUT has been tested with the operating condition for maximizing the emission characteristics. A test program is used to control the EUT for staying in continuous transmitting. The Bluetooth low energy mode with below low, middle and high channels were tested and reported.

Test		Frequency [MHz]			
Mode	Description	Lowest Frequency	Middle Frequency	Highest Frequency	
TM 1	BT LE 1 Mbps (ANT 1)	2 402	2 440	2 480	
TM 2	BT LE 1 Mbps (ANT 2)	2 402	2 440	2 480	

Operation test setup for EUT

- Test Software: PCAN-View Ver 4.2.4.564

- Power setting: Default of EUT

2.5 Instrument Calibration

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

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3. Test Result

3.1 Maximum Peak Conducted Output Power

■ Test Requirements and limit, §15.247(b) & RSS-247 [5.4]

A transmitter antenna terminal of EUT is connected to the input of a spectrum analyzer.

Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt.

3.1.1 Test Setup

Refer to the APPENDIX I.

3.1.2 Test Procedures

- KDB558074 D01v05r02 Section 8.3.1.3
- ANSI C63.10-2013 Section 11.9.1.1

RBW ≥ DTS bandwidth

- 1. Set the RBW ≥ DTS bandwidth. Actual RBW = 2 MHz
- 2. Set VBW ≥ 3 x RBW. Actual VBW = 6 MHz
- 3. Set span ≥ $3 \times RBW$.
- 4. Sweep time = auto couple
- 5. Detector = peak
- 6. Trace mode = max hold
- 7. Allow trace to fully stabilize
- 8. Use peak marker function to determine the peak amplitude level.

3.1.3 Test Results

Test mode	Tested Channel	Burst Average Output Power	Peak Output Power
rest mode	resteu Chamiei	dBm	dBm
	Lowest	1.74	2.76
TM 1	Middle	1.12	1.91
	Highest	0.46	1.12
	Lowest	-0.74	0.29
TM 2	Middle	-1.42	-0.42
	Highest	-2.06	-1.37

Note 1: The Burst average output power was tested using an average power meter for reference only.

Note 2: See next pages for actual measured spectrum plots.

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Peak Output Power

TM 1 Test Channel: Lowest



Peak Output Power

TM 1 Test Channel: Middle



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Peak Output Power

TM 1 Test Channel: Highest



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Peak Output Power

TM 2 Test Channel: Lowest



Peak Output Power

TM 2 Test Channel : Middle



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Peak Output Power

TM 2 Test Channel: Highest



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3.2 6 dB Bandwidth Measurement

■ Test Requirements and limit, §15.247(a) & RSS-247 [5.2]

The bandwidth at 6 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the EUT's antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

The minimum permissible 6 dB bandwidth is 500 kHz.

3.2.1 Test Setup

Refer to the APPENDIX I.

3.2.2 Test Procedures

- KDB558074 D01v05r02 Section 8.2
- ANSI C63.10-2013 Section 11.8.2
- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.

(RBW: 100 kHz / VBW: 300 kHz)

- 3. Detector = **peak**.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Option 1 Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Option 2 - The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

3.2.3 Test Results

Test Mode	Tested Channel	Test Results [MHz]
	Lowest	0.654
TM 1	Middle	0.641
	Highest	0.652
	Lowest	0.634
TM 2	Middle	0.669
	Highest	0.654

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6 dB Bandwidth

TM 1 Test Channel: Lowest



6 dB Bandwidth

TM 1 Test Channel: Middle



FCC ID: 2AS9T-ASBLEM

6 dB Bandwidth

TM 1 Test Channel: Highest



FCC ID: 2AS9T-ASBLEM

6 dB Bandwidth

TM 2 Test Channel: Lowest



6 dB Bandwidth

TM 2 Test Channel: Middle



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FCC ID: 2AS9T-ASBLEM

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6 dB Bandwidth

TM 2 Test Channel: Highest



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3.3 Maximum Power Spectral Density.

■ Test requirements and limit, §15.247(e) & RSS-247 [5.2]

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Minimum Standard

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission

3.3.1 Test Setup

Refer to the APPENDIX I.

3.3.2 Test Procedures

- KDB558074 D01v05r02 Section 8.4
- ANSI C63.10-2013 Section 11.10.2

Method PKPSD (peak PSD)

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW : 3 kHz \leq RBW \leq 100 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the **peak marker function** to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

3.3.3 Test Results

Test Mode	Tested Channel	PKPSD [dBm]		
	Lowest	-3.21		
TM 1	Middle	-4.31		
	Highest	-4.89		
	Lowest	-5.95		
TM 2	Middle	-6.37		
	Highest	-7.62		

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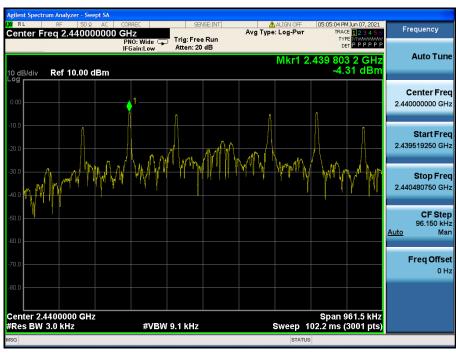
Maximum PKPSD

TM 1 Test Channel: Lowest



Maximum PKPSD

TM 1 Test Channel: Middle



FCC ID: 2AS9T-ASBLEM

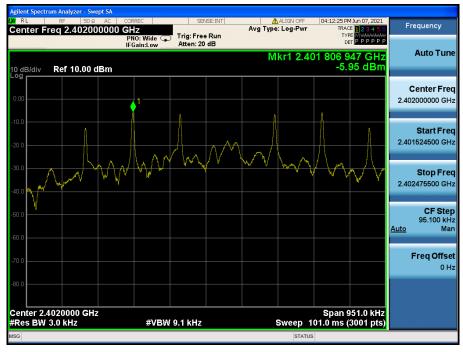
Maximum PKPSD TM 1 Test Channel : Highest



FCC ID: 2AS9T-ASBLEM

Maximum PKPSD

TM 2 Test Channel: Lowest



Maximum PKPSD

TM 2 Test Channel: Middle

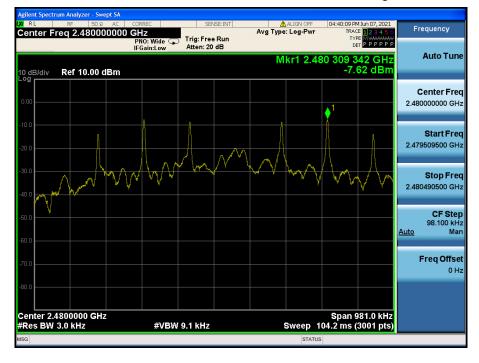


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Maximum PKPSD

TM 2 Test Channel: Highest



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3.4 Unwanted Emissions (Conducted)

■ Test requirements and limit, §15.247(d) & RSS-247 [5.5]

§15.247(d) specifies that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level

If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to **15.247(b)(3)** requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured inband average PSD level.

In either case, attenuation to levels below the general emission limits specified in §15.209(a) is not required.

3.4.1 Test Setup

Refer to the APPENDIX I.

3.4.2 Test Procedures

- KDB558074 D01v05r02 Section 8.5
- ANSI C63.10-2013 Section 11.11

Reference level measurement

- 1. Set instrument center frequency to DTS channel center frequency.
- 2. Set the span to ≥ 1.5 times the DTS bandwidth.
- 3. Set the RBW = 100 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum PSD level LIMIT LINE = 20 dB below of the reference level.

Emission level measurement

- 1. Set the center frequency and span to encompass frequency range to be measured.
- 2. Set the RBW = 100 kHz.(Actual 1 MHz , See below note)
- 3. Set the VBW ≥ 3 x RBW.(Actual 3 MHz, See below note)
- 4. Detector = peak.
- 5. Ensure that the number of measurement points ≥ span / RBW
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
- 9. Use the peak marker function to determine the maximum amplitude level.

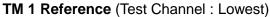
Note: The conducted spurious emission was tested with below settings.

Frequency range	RBW	VBW	Detector	Trace	Sweep Point
9 kHz ~ 30 MHz	100 kHz	300 kHz			
30 MHz ~ 10 GHz	1 MHz	3 MHz	Peak	Max Hold	40 001
10 GHz ~ 25 GHz	1 MHz	3 MHz			

If the emission level with above setting was close to the limit (ie, less than 3 dB margin) then zoom scan is required using RBW = 100 kHz, VBW = 300 kHz, SPAN = 100 MHz and BINS = 2 001 to get accurate emission level within 100 kHz BW.

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3.4.3 Test Results



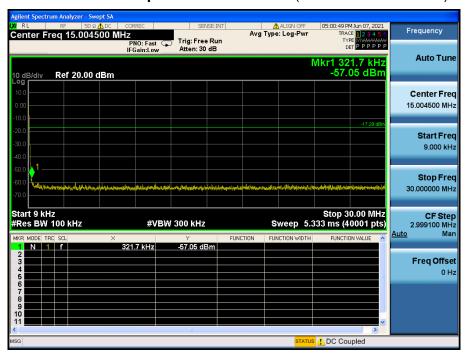


TM 1 Low Band-edge (Test Channel : Lowest)

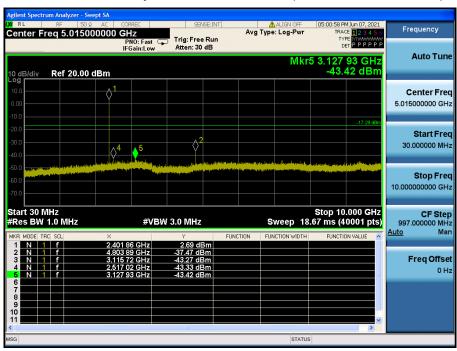


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TM 1 Conducted Spurious Emissions 1 (Test Channel : Lowest)



TM 1 Conducted Spurious Emissions 2 (Test Channel : Lowest)



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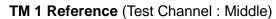
TM 1 Conducted Spurious Emissions 3 (Test Channel : Lowest)



TDt&C

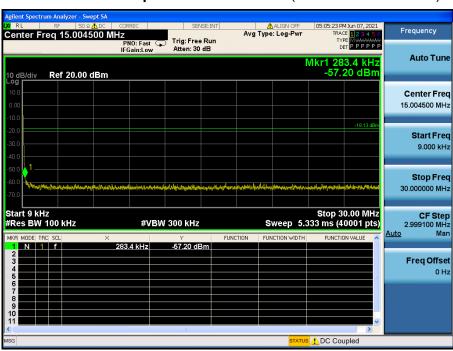
FCC ID: 2AS9T-ASBLEM

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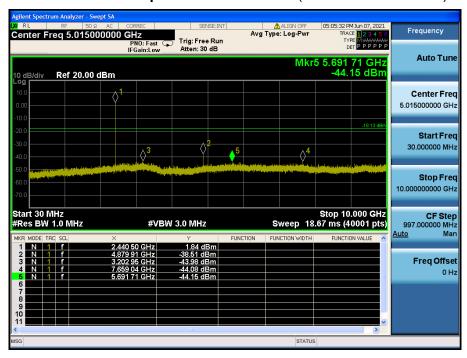
TM 1 Conducted Spurious Emissions 1 (Test Channel : Middle)



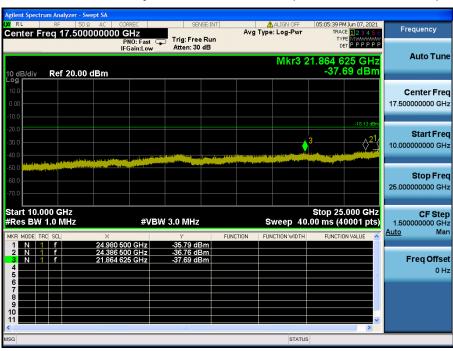
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TM 1 Conducted Spurious Emissions 2 (Test Channel : Middle)



TM 1 Conducted Spurious Emissions 3 (Test Channel : Middle)



IC : **27298-ASBLEM**



TM 1 Reference (Test Channel: Highest)



TM 1 High Band-edge (Test Channel: Highest)

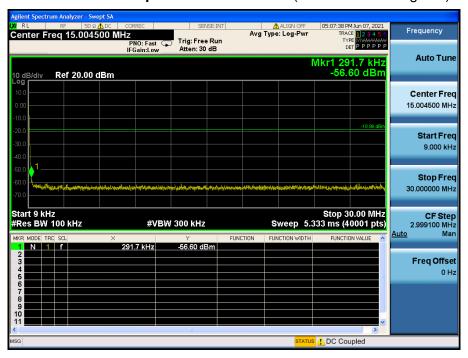


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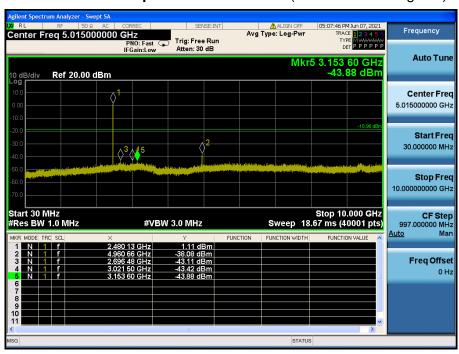
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TM 1 Conducted Spurious Emissions 1 (Test Channel : Highest)



TM 1 Conducted Spurious Emissions 2 (Test Channel: Highest)



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TM 1 Conducted Spurious Emissions 3 (Test Channel : Highest)



IC : 27298-ASBLEM



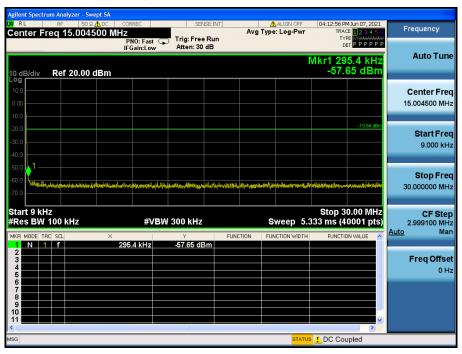




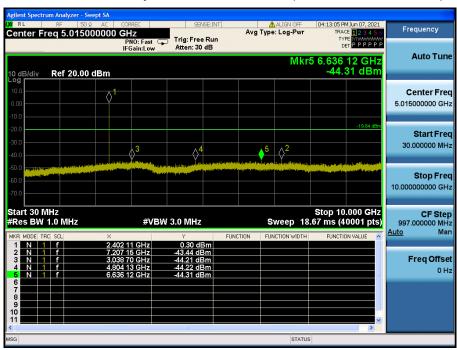
TM 2 Low Band-edge (Test Channel: Lowest)



TM 2 Conducted Spurious Emissions 1 (Test Channel : Lowest)



TM 2 Conducted Spurious Emissions 2 (Test Channel : Lowest)



IC: 27298-ASBLEM

TM 2 Conducted Spurious Emissions 3 (Test Channel : Lowest)



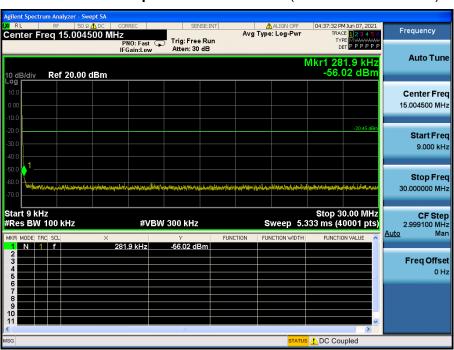
IC : 27298-ASBLEM







TM 2 Conducted Spurious Emissions 1 (Test Channel : Middle)



TM 2 Conducted Spurious Emissions 2 (Test Channel : Middle)

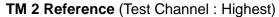


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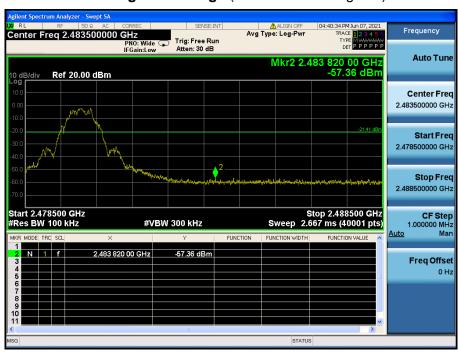
IC : **27298-ASBLEM**



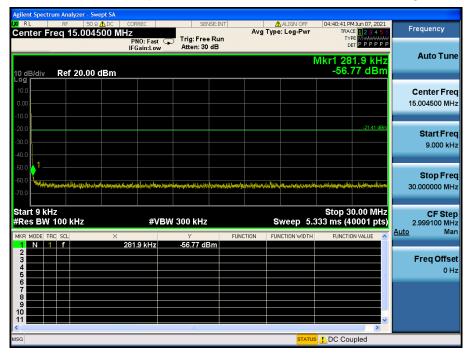




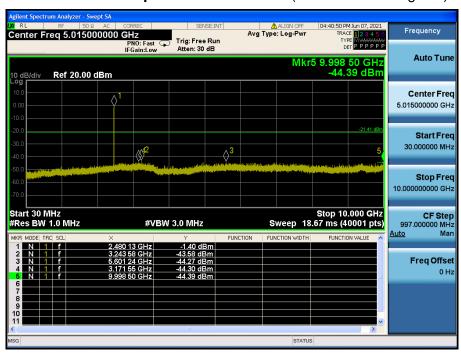
TM 2 High Band-edge (Test Channel: Highest)



TM 2 Conducted Spurious Emissions 1 (Test Channel : Highest)



TM 2 Conducted Spurious Emissions 2 (Test Channel : Highest)



IC: 27298-ASBLEM

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TM 2 Conducted Spurious Emissions 3 (Test Channel : Highest)



FCC ID: 2AS9T-ASBLEM

3.5 Unwanted Emissions (Radiated)

■ Test Requirements and limit,

Part 15.247(d), Part 15.205, Part 15.209 & RSS-247 [5.5], RSS-Gen [8.9], RSS-Gen [8.10]

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of Part 15.247 the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

- Part 15.209 & RSS-247[8.9]

Frequency (MHz)	FCC Limit (uV/m)	IC Limit (μA/m)	Measurement Distance (m)
0.009 - 0.490	2 400 / F (kHz)	6.37/F (F in kHz)	300
0.490 - 1.705	24 000 / F (kHz)	63.7/F (F in kHz)	30
1.705 – 30.0	30	0.08	30

Frequency (MHz)	FCC Limit (uV/m)	IC Limit (uV/m)	Measurement Distance (m)
30 ~ 88	100 **	100	3
88 ~ 216	150 **	150	3
216 ~ 960	200 **	200	3
Above 960	500	500	3

^{**}Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54 MHz -72 MHz, 76 MHz -88 MHz, 174 MHz -216 MHz or 470-806 MHz. However, operation within these frequency bands is permltted under other sections of this part, e.g., §§15.231 and 15.241.

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- Part 15,205(a): Restricted band of operation

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.414 25 ~ 8.414 75	108.00 ~ 121.94	1 300 ~ 1 427	4.50 ~ 5.15	14.47 ~ 14.50
0.495 ~ 0.505	12.290 ~ 12.293	123 ~ 138	1 435.0 ~ 1 626.5	5.35 ~ 5.46	15.35 ~ 16.20
2.173 5 ~ 2.190 5	12.519 75 ~ 12.520 25	149.90 ~ 150.05	1 645.5 ~ 1 646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.576 75 ~ 12.577 25	156.524 75 ~ 156.525 25	1 660 ~ 1 710	8.025 ~ 8.500	22.01 ~ 23.12
4.177 25 ~ 4.177 75	13.36 ~ 13.41	156.7 ~ 156.9	1 718.8 ~ 1 722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.207 25 ~ 4.207 75	16.420 ~ 16.423	162.012 5 ~ 167.170 0	2 200 ~ 2 300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.694 75 ~ 16.695 25	167.72 ~ 173.20	2 310 ~ 2 390	10.6 ~ 12.7	36.43 ~ 36.50
6.267 75 ~ 6.268 25	16.804 25 ~ 16.804 75	240 ~ 285	2 483.5 ~ 2 500.0	13.25 ~ 13.40	Above 38.6
6.311 75 ~ 6.312 25	25.50 ~ 25.67	322.0 ~ 335.4	2 655 ~ 2 900		
8.291 ~ 8.294	37.50 ~ 38.25	399.90 ~ 410.00	3 260 ~ 3 267		
8.362 ~ 8.366	73.0 ~ 74.6	608 ~ 614	3 332 ~ 3 339		
8.376 25 ~ 8.386 75	74.8 ~ 75.2	960 ~ 1 240	3 345.8 ~ 3 358.0		
			3 600 ~ 4 400		

- RSS-GEN[8.10]: Restricted frequency bands

	Tequency			Г	
MHz	MHz	MHz	MHz	MHz	GHz
0.090 ~ 0.110	8.362 ~ 8.366	73.0 ~ 74.6	608 ~ 614	3 345.8 ~ 3 358.0	9.0 ~ 9.2
0.495 ~ 0.505	8.376 25 ~ 8.386 75	74.8 ~ 75.2	960 ~ 1 427	3 500 ~ 4 400	9.3 ~ 9.5
2.173 5 ~ 2.190 5	8.414 25 ~ 8.414 75	108 ~ 138	1 435.0 ~ 1 626.5	4 500 ~ 5 150	10.6 ~ 12.7
3.020 ~ 3.026	12.29 ~ 12.293	149.90 ~ 150.05	1 645.5 ~ 1 646.5	5 350 ~ 5 460	13.25 ~ 13.4
4.125 ~ 4.128	12.519 75 ~ 12.520 25	156.524 75 ~	1 660 ~ 1 710	7 250 ~ 7 750	14.47 ~ 14.50
4.177 25 ~ 4.177 75	12.576 75 ~ 12.577 25	156.525 25	1 718.8 ~ 1 722.2	8 025 ~ 8 500	15.35 ~ 16.20
4.207 25 ~ 4.207 75	13.36 ~ 13.41	156.7 ~ 156.9	2 200 ~ 2 300		17.7 ~ 21.4
5.677 ~ 5.683	16.42 ~ 16.423	162.012 5 ~	2 310 ~ 2 390		22.01 ~ 23.12
6.215 ~ 6.218	16.694 75 ~ 16.695 25	167.1700 0	2 483.5 ~ 2 500.0		23.6 ~ 24.0
6.267 75 ~ 6.268 25	16.804 25 ~ 16.804 75	167.72 ~ 173.20	2 655 ~ 2 900		31.2 ~ 31.8
6.311 75 ~ 6.312 25	25.5 ~ 25.67	240 ~ 285	3 260 ~ 3 267		36.43 ~ 36.50
8.291 ~ 8.294	37.5 ~ 38.25	322.0 ~ 335.4	3 332 ~ 3 339		Above 38.6
		399.90 ~ 410.00			

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3.5.1 Test Setup

Refer to the APPENDIX I.

3.5.2 Test Procedures

- 1. The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- KDB558074 D01v05r02 Section 8.6
- ANSI C63.10-2013 Section 11.12
- 1. Frequency Range Below 1 GHz

RBW = 100 or 120 kHz, VBW = 3 x RBW, Detector = Peak or Quasi Peak

2. Frequency Range > 1 GHz

Peak Measurement > 1 GHz

RBW = 1 MHz, VBW = 3 MHz, Detector = Peak, Sweep time = Auto, Trace mode = Max Hold until the trace stabilizes Average Measurement> 1GHz

- 1. RBW = 1 MHz (unless otherwise specified).
- 2. VBW \geq 3 x RBW.
- 3. Detector = RMS (Number of points ≥ 2 x Span / RBW)
- 4. Averaging type = power (i.e., RMS).
- 5. Sweep time = auto.
- 6. Perform a trace average of at least 100 traces.
- 7. A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
- 1) If power averaging (RMS) mode was used in step 4, then the applicable correction factor is 10 log(1/D), where D is the duty cycle.
- 2) If linear voltage averaging mode was used in step 4, then the applicable correction factor is 20 log(1/D), where D is the duty cycle.
- 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

Test Mode	Duty Cycle (%)	T _{on} (ms)	T _{on} + T _{off} (ms)	DCF = 10 log(1/Duty) (dB)
TM 1	85.60	2.140	2.500	0.68
TM 2	85.60	2.140	2.500	0.68

Note1: Where, T= Transmission duration / D= Duty cycle Note2: Please refer to the appendix II for duty cycle plots.

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3.5.3 Test Results

Test Notes

1. The radiated emissions were investigated 9 kHz to 25 GHz. And no other spurious and harmonic emissions were found below listed frequencies.

2. Information of Distance Factor

For finding emissions, measurements may be performed at a distance closer than that specified in the regulations. In this case, the distance factor is applied to the result.

- Calculation of distance correction factor

At frequencies below 30 MHz = 40 log(tested distance / specified distance)

At frequencies at or above 30 MHz = 20 log(tested distance / specified distance)

When distance factor is "N/A", the measurements were performed at the specified distance and distance factor is not applied.

3. Sample Calculation.

Margin = Limit - Result / Result = Reading + T.F+ DCCF + DCF / T.F = AF + CL + HL + AL - AG

Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain, HL = High pass filter Loss, AL = Attenuator Loss, DCCF = Duty Cycle Correction Factor, DCF = Distance Correction Factor

4. *fundamental

Frequency Range: 9 kHz ~ 25 GHz _ TM 1

Lowest Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2 389.82	Н	Х	PK	48.58	4.79	N/A	N/A	53.37	74.00	20.63
2 389.82	Н	Х	AV	38.86	4.79	0.68	N/A	44.33	54.00	9.67
4 803.39	Н	Υ	PK	50.64	1.85	N/A	N/A	52.49	74.00	21.51
4 803.93	Н	Υ	AV	41.80	1.85	0.68	N/A	44.33	54.00	9.67
7 205.38	Н	Х	PK	49.67	7.73	N/A	N/A	57.40	74.00	16.60
7 206.81	Н	Х	AV	41.17	7.73	0.68	N/A	49.58	54.00	4.42

Middle Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
4 880.85	Н	Y	PK	51.76	2.13	N/A	N/A	53.89	74.00	20.11
4 880.00	Н	Υ	AV	43.02	2.13	0.68	N/A	45.83	54.00	8.17
7 320.53	Н	Х	PK	48.70	8.20	N/A	N/A	56.90	74.00	17.10
7 320.81	Н	X	AV	38.77	8.20	0.68	N/A	47.65	54.00	6.35

Highest Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2 483.54	Н	Х	PK	49.14	5.74	N/A	N/A	54.88	74.00	19.12
2 483.56	Н	X	AV	39.05	5.74	0.68	N/A	45.47	54.00	8.53
4 960.58	Н	Y	PK	53.06	2.13	N/A	N/A	55.19	74.00	18.81
4 960.35	Н	Y	AV	45.18	2.13	0.68	N/A	47.99	54.00	6.01
7 439.09	Н	X	PK	49.10	8.16	N/A	N/A	57.26	74.00	16.74
7 440.91	Н	X	AV	40.01	8.16	0.68	N/A	48.85	54.00	5.15

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Frequency Range: 9 kHz ~ 25 GHz _ TM 2

Lowest Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
*2 402.308	Н	Х	PK	93.53	4.91	N/A	N/A	98.44	-	-
2 389.74	Н	Х	PK	48.25	4.79	N/A	N/A	53.04	74.00	20.96
2 389.77	Н	Х	AV	38.69	4.79	0.68	N/A	44.16	54.00	9.84
4 803.64	Н	Х	PK	51.98	1.86	N/A	N/A	53.84	74.00	20.16
4 804.32	Н	Х	AV	43.29	1.86	0.68	N/A	45.83	54.00	8.17
7 205.68	Н	Х	PK	54.75	7.72	N/A	N/A	62.47	78.44	15.97

Middle Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
4 880.71	Н	Х	PK	49.95	2.13	N/A	N/A	52.08	74.00	21.92
4 880.43	Н	X	AV	40.56	2.13	0.68	N/A	43.37	54.00	10.63
7 319.15	Н	X	PK	51.37	8.20	N/A	N/A	59.57	74.00	14.43
7 320.91	Н	X	AV	43.93	8.20	0.68	N/A	52.81	54.00	1.19

Highest Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	DCCF (dB)	DCF (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2 483.63	Н	Х	PK	49.56	5.74	N/A	N/A	55.30	74.00	18.70
2 483.62	Н	X	AV	39.09	5.74	0.68	N/A	45.51	54.00	8.49
4 960.25	Н	Х	PK	49.35	2.12	N/A	N/A	51.47	74.00	22.53
4 959.95	Н	Х	AV	39.51	2.12	0.68	N/A	42.31	54.00	11.69
7 440.96	Н	Х	PK	47.83	8.16	N/A	N/A	55.99	74.00	18.01
7 439.35	Н	X	AV	39.07	8.16	0.68	N/A	47.91	54.00	6.09

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3.6 Power line Conducted Emissions

■ Test Requirements and limit, §15.207 & RSS-Gen [8.8]

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).

Francisco Barras (MUL)	Conducted Limit (dBuV)					
Frequency Range (MHz)	Quasi-Peak	Average				
0.15 ~ 0.50	66 to 56 *	56 to 46 *				
0.5 ~ 5.0	56	46				
5 ~ 30	60	50				

^{*} Decreases with the logarithm of the frequency

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

3.6.1 Test Setup

See test photographs for the actual connections between EUT and support equipment.

3.6.2 Test Procedures

Conducted emissions from the EUT were measured according to the ANSI C63.10-2013.

- 1. The test procedure is performed in a 6.5 m x 3.5 m x 3.5 m (L x W x H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) x 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
- 2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
- 3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
- 4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

3.6.3 Test Results

: NA

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3.7 Occupied Bandwidth

■ Test Requirements, RSS-Gen [6.7]

When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99 % emission bandwidth, as calculated or measured.

3.7.1 Test Setup

Refer to the APPENDIX I.

3.7.2 Test Procedures

The 99 % power bandwidth was measured with a calibrated spectrum analyzer.

The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3 x RBW.

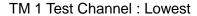
3.7.3 Test Results

Test Mode	Tested Channel Test Results (MHz)	
	Lowest	1.040
TM 1	Middle	1.027
	Highest	1.054
	Lowest	1.024
TM 2	Middle	1.058
	Highest	1.028

Note: See next pages for actual measured spectrum plots.

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Occupied Bandwidth





Occupied Bandwidth

TM 1 Test Channel: Middle



FCC ID: 2AS9T-ASBLEM

Occupied Bandwidth

TM 1 Test Channel: Highest



FCC ID: 2AS9T-ASBLEM

Occupied Bandwidth TM 2 Test Channel : Lowest



Occupied Bandwidth

TM 2 Test Channel: Middle



FCC ID: 2AS9T-ASBLEM

Occupied Bandwidth

TM 2 Test Channel: Highest





FCC ID: 2AS9T-ASBLEM

4. ANTENNA REQUIREMENTS

■ According to FCC 47 CFR §15.203

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna is permanently attached on the device.

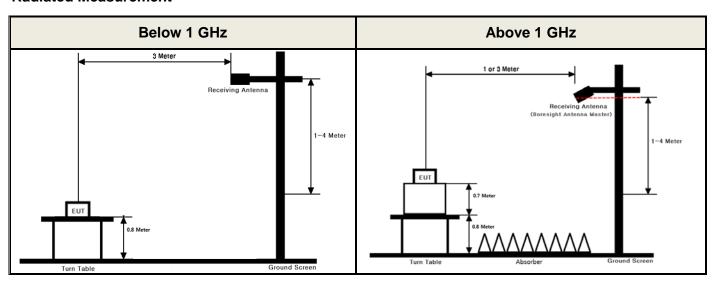
Therefore this E.U.T Complies with the requirement of §15.203

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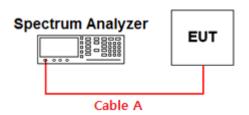
APPENDIX I

Test set up diagrams

Radiated Measurement



Conducted Measurement



Path loss information

Frequency (GHz)	Path Loss (dB)	Frequency (GHz)	Path Loss (dB)
0.03	0.63	15	4.14
1	1.28	20	4.45
2.402 & 2.440 & 2.480	1.77	25	5.26
5	2.66	-	-
10	3.32	-	-

Note 1 : The path loss from EUT to Spectrum analyzer was measured and used for test. Path loss (S/A's correction factor) = Cable A

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APPENDIX II

Duty cycle plots

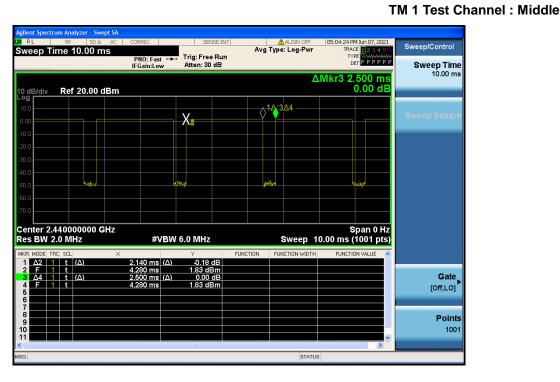
Test Procedure

Duty Cycle was measured using Section 6.0 b) of KDB558074 D01v05r02:

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value. Set VBW ≥ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are > 50 / T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

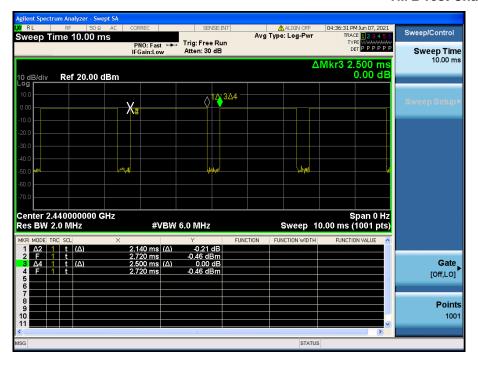
Duty Cycle



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Duty Cycle

TM 2 Test Channel: Middle



IC : 27298-ASBLEM

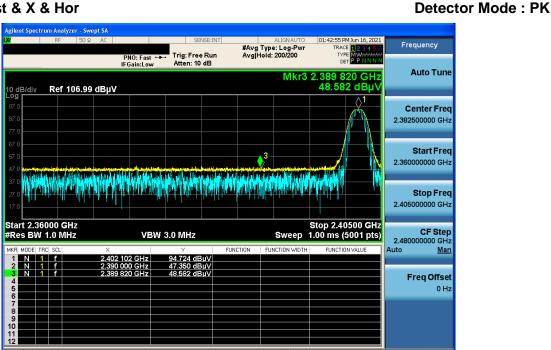
Detector Mode: AV



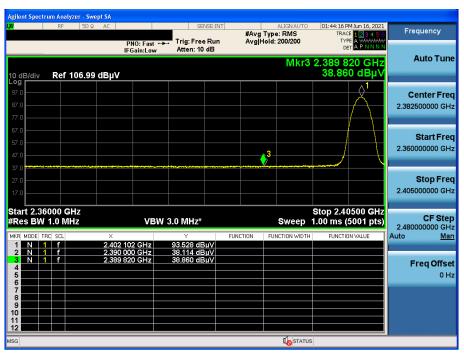
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Unwanted Emissions (Radiated) Test Plot

TM1 & Lowest & X & Hor



TM1 & Lowest & X & Hor

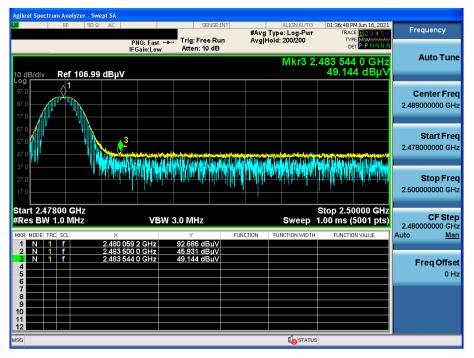


FCC ID: 2AS9T-ASBLEM
IC: 27298-ASBLEM

TDt&C

TM1 & Highest & X & Hor

Detector Mode: PK



TM1 & Highest & X & Hor

Detector Mode: AV

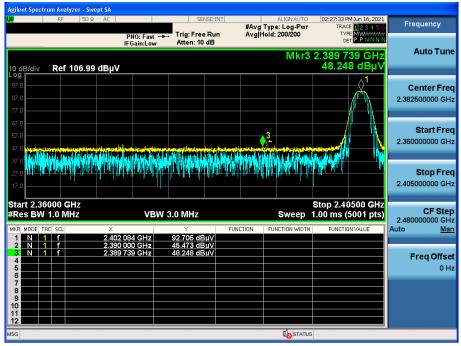


IC: 27298-ASBLEM



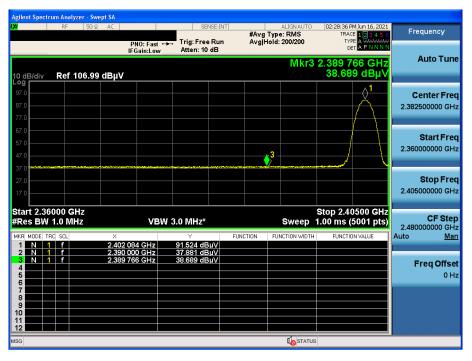
TM2 & Lowest & X & Hor

Detector Mode: PK



TM2 & Lowest & X & Hor

Detector Mode: AV



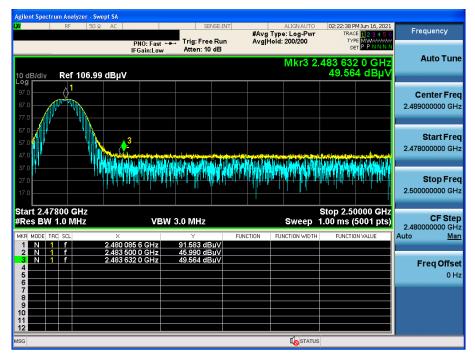
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IC: 27298-ASBLEM

TDt&C

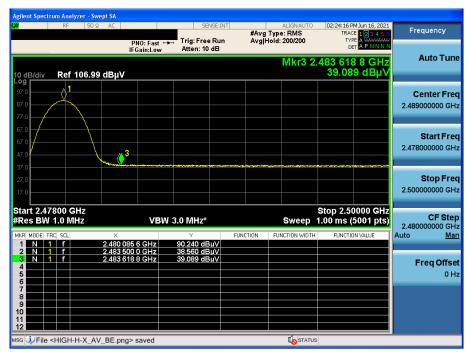
TM2 & Highest & X & Hor

Detector Mode: PK



TM2 & Highest & X & Hor



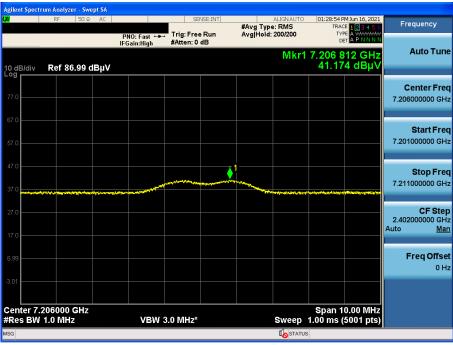


Report No.: DRTFCC2106-0065

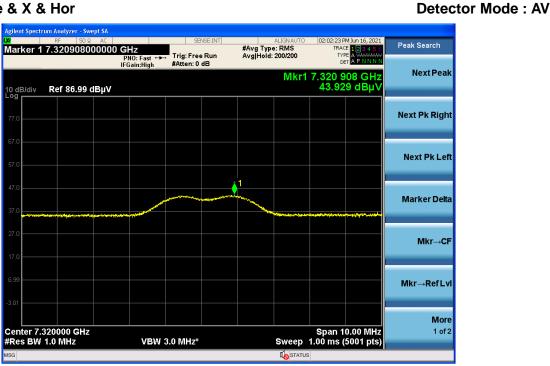
IC: 27298-ASBLEM

FCC ID: 2AS9T-ASBLEM

TM1 & Lowest & X & Hor



TM2 & Middle & X & Hor



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Detector Mode: AV

Report No.: DRTFCC2106-0065

FCC ID: 2AS9T-ASBLEM
IC: 27298-ASBLEM

Detector Mode: PK

Fundamental (Radiated) Test Plot

TM2 & Lowest & X & Hor

Center 2.402000 GHz #Res BW 2.0 MHz

Auto Tune

| Pho: Fast | Pho:

#VBW 6.0 MHz

Span 10.00 MHz Sweep 1.00 ms (5001 pts)