

Test Report

Report No.: MTi210512003-01E1

Date of issue: June 08, 2021

Applicant: Zendure USA Inc.

Product name: USB-C Watch Charger

Model(s): ZDSMCM1

FCC ID: 2AZ26-ZDSMCM1

Shenzhen Microtest Co., Ltd. http://www.mtitest.com



Instructions

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- 2. The test results of this report are only responsible for the samples submitted:
- 3. This report is invalid without the seal and signature of the laboratory;
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TEST RESULT CERTIFICATION					
Applicant's name Zendure USA Inc.					
Address	3120 Scott Blvd #11 Santa Clara, CA 95054, USA				
Manufacturer's Name	: Guangzho	u Rimsea Technology Co., Limited			
Address	•	6-1907, 19th Floor, No. 368 Lijiao Road, Haizhu uangzhou, Guangdong Province, P.R. China 510260			
Factory's Name	Dongguan	DBK Energy Technology Co., Ltd			
Address	•	hangmutou Section, Dongshen Rd., Zhangmutou gguan City, Guangdong Province, P.R.China			
Product description					
Product name	USB-C Wa	atch Charger			
Trademark:	ZENDU	JRE			
Model Name	: ZDSMCM1	1			
Serial Model	N/A				
Standards	: FCC Part 15C				
Test procedure	ANSI C63.	10-2013			
Date of Test					
Date (s) of performance of tests	3:	May 24, 2021 ~ June 02, 2021			
Test Result	:	Pass			
	r test (EUT)	ted by Shenzhen Microtest Co., Ltd. and the test results is in compliance with the FCC requirements. And it is fied in the report.			
Testing Engineer	:	Danny Stu			
		(Danny Xu)			
Technical Manager	:	Leo Su (Leo Su)			
		(200 00)			
Authorized Signatory	:	tom Xue			
		(Tom Xue)			



1 GENERAL INFORMATION

1.1 Feature of equipment under test (EUT)

Product name:	USB-C Watch Charger
Model name:	ZDSMCM1
Model difference:	N/A
Operation frequency:	326.5 kHz
Modulation type:	ASK
Max output power:	5W
Antenna type:	Coil Antenna
Power supply:	DC 5V from adapter AC 120V/60Hz
Input:	5V/1A
Adapter information:	N/A
EUT serial number:	MTi210512003-01-S0001

1.2 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 above was evaluated respectively.

Test mode	Description		
Mode 1	Wireless charging		

Note:

1: The test modes were carried out for all operation modes. The final test mode of the EUT was the worst test mode for EMI, and its test data was showed.

2: EUT is tested under full load.

1.3 EUT test setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Ancillary equipment

Equipment	Model	S/N	Manufacturer
Adapter	LS-65WTAQCPD	/	Lenovo
iwatch	/	/	Apple



2 Summary of Test Result

Item	FCC Part No.	Description of Test	Result
1	FCC PART 15.203	Antenna requirement	Pass
2	FCC PART 15.207	Conducted emission	Pass
3	FCC PART 15.209	Radiated emission	Pass
4	FCC Part 15.215	20dB bandwidth	Pass

2.1 Operation channel list

Channel	Frequency (kHz)		
/	326.5		

2.2 Test channel

Channel	Frequency (kHz)		
/	326.5		

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China. Tel: (86-755)88850135 Fax: (86-755) 88850136 Web:www.mtitest.com E-mail: mti@51mti.com



3 Test Facilities and Accreditations

3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd		
Location	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.		
FCC Registration No.:	448573		

3.2 Environmental conditions

Temperature:	15°C~35°C
Humidity	20%~75%
Atmospheric pressure	98kPa~101kPa

3.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

RF frequency	1 x 10-7
RF power, conducted	± 1 dB
Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	±5%

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China. Tel: (86-755)88850135 Fax: (86-755) 88850136 Web:www.mtitest.com E-mail: mti@51mti.com



4 List of test equipment

Equipmen t No.	Equipment Name	Manufact urer	Model	Serial No.	Calibration date	Due date
MTI-E043	EMI Test Receiver	Rohde≻ hwarz	ESCI7	101166	2020/06/04	2021/06/03
MTI-E044	TRILOG Broadband Antenna	schwarab eck	VULB 9163	9163-133 8	2020/06/05	2021/06/04
MTI-E047	Amplifier	Hewlett-P ackard	8447F	3113A061 50	2020/06/04	2021/06/03
MTI-E089	ESG Vector Signal Generator	Agilent	N5182A	MY49060 455	2020/06/03	2021/06/02
MTI-E058	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051 240	2020/07/03	2021/07/04
MTI-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350 296	2020/06/04	2021/06/03
MTI-E066	MXA Signal Analyzer	Agilent	N9020A	MY50143 483	2020/06/04	2021/06/03
MTI-E078	Synthesized Sweeper	Agilent	83752A	3610A019 57	2020/06/04	2021/06/03
MTI-E079	DC Power Supply	Agilent	E3632A	MY40027 695	2020/06/04	2021/06/03
MTI-E021	EMI Test Receiver	Rohde≻ hwarz	ESCS30	100210	2020/06/04	2021/06/03
MTI-E022	Pulse Limiter	Schwarzb eck	VSTD 9561-F	00679	2020/06/03	2021/06/02
MTI-E023	Artificial mains network	Schwarzb eck	NSLK 8127	NSLK 8127 #841	2020/06/04	2021/06/03
MTI-E046	Active Loop Antenna	Schwarzb eck	FMZB 1519 B	00044	2020/06/05	2021/06/04
MTI-E048	Amplifier	Agilent	8449B	3008A024 00	2020/07/03	2021/07/04
MTI-E072	Thermometer Clock Humidity Monitor	-	HTC-1	/	2020/06/07	2021/06/06
MTI-E090	Test Loop Antenna	DATETEK	LA-001	77140963 4	2020/06/05	2021/06/04

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



5 Test Results

5.1 Antenna requirement

5.1.1 Standard requirement

15.203 requirement: For intentional device, according to 15.203: 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

5.1.2 EUT Antenna

The EUT antenna is Coil Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.



5.2 Conducted emission

5.2.1 Limits

For the following equipment, when 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 shall not exceed the limits in the following tables. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal using a 50 μ H/50 ohms line impedance stabilization network (LISN).

Frequency	Conducted li	mit (dBµV)
(MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.5 -5	56	46
5 -30	60	50

Note:

the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

5.2.2 Test Procedures

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 equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

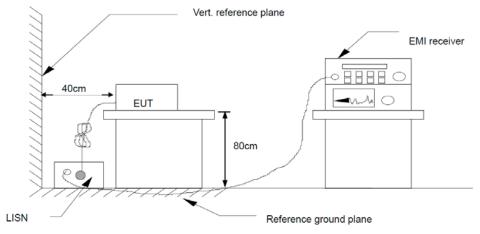
Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

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 is at least 80 cm from nearest part of EUT chassis.

For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test Setup



5.2.4 Test Result

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EUT:			USB	-C V	Nat	ch Charger	Mode	l Nar	ne:				ZDSMCM1		
Press	sure:		101k	Ра			Phase	e:					L		
Test v	voltage:		DC 5			adapter AC	Test r	node	:				Mode 1		
90.0	dBuV						•								
80															
70 60									FCCF	Part1	i Clas	sB AC	Conduction(QP)		
50	Ž								FCCF	art1	Clas	sB AC	Conduction(AVG)		
40	1 y	2									_				
30	3 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		۱	5		Z		9			11 **				
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0															
-10															
-20															

(MHz)

0.800

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1 *	0.1590	37.98	10.99	48.97	65.52	-16.55	QP
2	0.1590	19.68	10.99	30.67	55.52	-24.85	AVG
3	0.3420	22.40	11.00	33.40	59.15	-25.75	QP
4	0.3420	15.72	11.00	26.72	49.15	-22.43	AVG
5	0.6500	14.43	11.10	25.53	56.00	-30.47	QP
6	0.6500	2.81	11.10	13.91	46.00	-32.09	AVG
7	1.0820	11.63	13.45	25.08	56.00	-30.92	QP
8	1.0820	0.39	13.45	13.84	46.00	-32.16	AVG
9	3.5900	13.61	11.42	25.03	56.00	-30.97	QP
10	3.5900	2.72	11.42	14.14	46.00	-31.86	AVG
11	6.6900	18.12	11.62	29.74	60.00	-30.26	QP
12	6.6900	2.25	11.62	13.87	50.00	-36.13	AVG

EUT:	USB-C Watch Charger	Model Name:	ZDSMCM1		
Pressure:	101kPa	Phase:	N Mode 1		
est voltage:	DC 5V from adapter AC 120V/60Hz	Test mode:			
90.0 dBuV					
80					
70		FCCPart15 ClassB At	Conduction(QP)		
50 40 2 3		FCCPart15 ClassB At	Conduction(AVG)		
30	Mn/4	7 9 11			
20	Military Carrier and Carrier and March 1989.	10 12 12 12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	politically deployed the state of the state		
0					
-10					
-20					
-30					

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detecto
1 *	0.1539	39.93	10.94	50.87	65.79	-14.92	QP
2	0.1539	20.54	10.94	31.48	55.79	-24.31	AVG
3	0.3260	21.87	10.91	32.78	59.55	-26.77	QP
4	0.3260	16.22	10.91	27.13	49.55	-22.42	AVG
5	1.3420	9.61	13.95	23.56	56.00	-32.44	QP
6	1.3420	-0.71	13.95	13.24	46.00	-32.76	AVG
7	2.2620	6.96	15.91	22.87	56.00	-33.13	QP
8	2.2620	-5.27	15.91	10.64	46.00	-35.36	AVG
9	4.0780	13.39	11.39	24.78	56.00	-31.22	QP
10	4.0780	1.90	11.39	13.29	46.00	-32.71	AVG
11	6.7060	18.13	11.41	29.54	60.00	-30.46	QP
12	6.7060	2.35	11.41	13.76	50.00	-36.24	AVG



-30 0.150

0.500

0.800

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EUT:			US	в-С	Wat	ch Charger	Mode	el Nai	me:				ZDSMCM1		
Press	sure:		101	kPa			Phas	se:					L		
Test v	/oltage:			DC 5V from adapter AC . 240V/60Hz			Test	Test mode:				Mode 1			
90.0	dBu∀														_
80															
70									ECC	Dar#1	E CIS	ooD At	C Conduction(QP)		-
60		-											1		1
50	My								FCC	Part1	5 Cla	ssB A	C Conduction(AVG	i)	-
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0							11.10								-
-10															-
-20															

(MHz)

No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1 '	*	0.1580	38.41	10.99	49.40	65.57	-16.17	QP
2		0.1580	13.23	10.99	24.22	55.57	-31.35	AVG
3		0.3260	26.90	11.00	37.90	59.55	-21.65	QP
4		0.3260	13.40	11.00	24.40	49.55	-25.15	AVG
5		0.4180	21.68	11.02	32.70	57.49	-24.79	QP
6		0.4180	3.65	11.02	14.67	47.49	-32.82	AVG
7		1.1140	12.87	13.51	26.38	56.00	-29.62	QP
8		1.1140	0.25	13.51	13.76	46.00	-32.24	AVG
9		3.2460	17.19	11.39	28.58	56.00	-27.42	QP
10		3.2460	3.44	11.39	14.83	46.00	-31.17	AVG
11		5.9340	16.97	11.56	28.53	60.00	-31.47	QP
12		5.9340	2.53	11.56	14.09	50.00	-35.91	AVG



0.150

0.500

0.800

Report No.: MTi210512003-01E1

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UT:		US	B-C \	Wat	ch Charge	er Mod	el Nai	me:			ZDSI	MCM1	
Pressure:		101	101kPa DC 5V from adapter AC 240V/60Hz			Pha	Phase: Test mode:				N Mode 1		
est voltage						AC Test							
90.0 dBuV													
80 70													
60								FCCI	art15	ClassB .	AC Condu	ction(QP)	
50								FCCI	art15	ClassB .	AC Condu	iction(AVG)	
40	3 ************************************												
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-10													
-20													

(MHz)

1 * 2 3	0.1620 0.1620	dBuV 38.93 16.83	dB 10.94	dBuV 49.87	dBuV	dB	Detector
2				49 87	05.00		
	0.1620	16.83		10.01	65.36	-15.49	QP
3			10.94	27.77	55.36	-27.59	AVG
3	0.2700	31.06	10.93	41.99	61.12	-19.13	QP
4	0.2700	18.54	10.93	29.47	51.12	-21.65	AVG
5	2.2300	10.61	15.85	26.46	56.00	-29.54	QP
6	2.2300	-4.72	15.85	11.13	46.00	-34.87	AVG
7	3.7180	16.44	11.38	27.82	56.00	-28.18	QP
8	3.7180	4.61	11.38	15.99	46.00	-30.01	AVG
9	6.6540	17.55	11.41	28.96	60.00	-31.04	QP
10	6.6540	1.85	11.41	13.26	50.00	-36.74	AVG
11	18.2860	9.29	11.77	21.06	60.00	-38.94	QP
12	18.2860	0.92	11.77	12.69	50.00	-37.31	AVG



5.3 Radiated emission

5.3.1 Limits

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBu\	//m) (at 3M)
FREQUENCT (MITZ)	PEAK	AVERAGE
Above 1000	74	54

Notes:

The limit for radiated test was performed according to FCC PART 15C.

The tighter limit applies at the band edges.

Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

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

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



5.3.2 Test Procedures

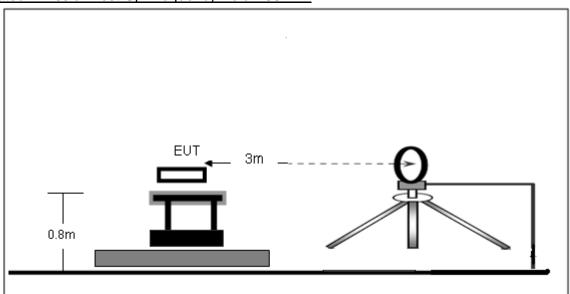
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
- h. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

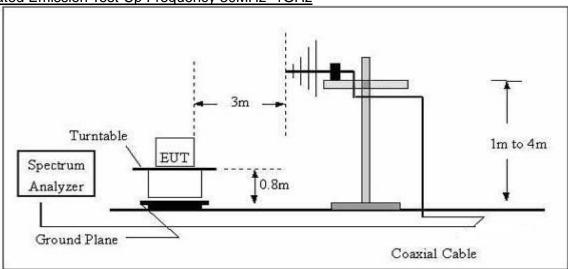


5.3.3 Test Setup

Radiated Emission Test-Up Frequency Below 30MHz



Radiated Emission Test-Up Frequency 30MHz~1GHz



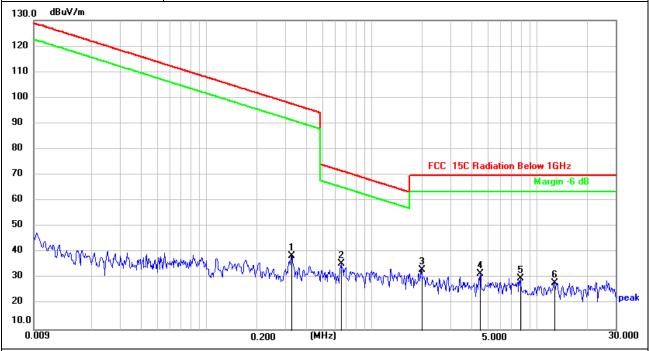
5.3.4 Test Result



Frequency range (9kHz - 30MHz)

=	20 27/4			
Pressure:	101kPa	Test mode:	Mode 1	
EUT:	USB-C Watch Charger	Model Name:	ZDSMCM1	

Test voltage: DC 5V from adapter AC 120V/60Hz

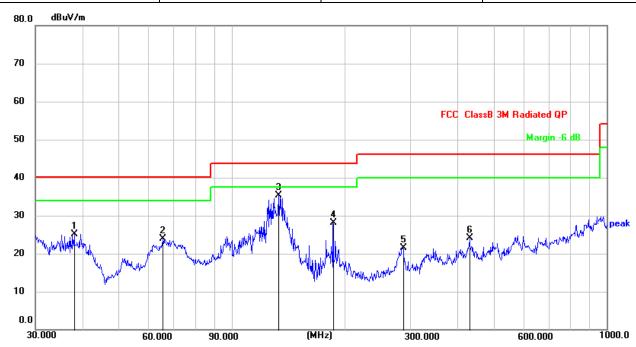


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.3272	16.88	21.86	38.74	97.31	-58.57	QP
2 *	0.6521	13.80	21.89	35.69	71.32	-35.63	QP
3	1.9975	11.10	22.16	33.26	69.50	-36.24	QP
4	4.5319	10.03	21.79	31.82	69.50	-37.68	QP
5	7.9318	8.27	21.76	30.03	69.50	-39.47	QP
6	12.6969	6.99	21.28	28.27	69.50	-41.23	QP



Frequency range (30MHz - 1GHz)

EUT:	USB-C Watch Charger	Model Name:	ZDSMCM1
Pressure:		Polarization:	Vertical
Test voltage:	DC 5V from adapter AC 120V/60Hz	Test mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.0783	38.59	-13.42	25.17	40.00	-14.83	QP
2	65.5727	36.23	-12.39	23.84	40.00	-16.16	QP
3 *	133.6188	52.54	-17.16	35.38	43.50	-8.12	QP
4	186.4409	41.88	-13.85	28.03	43.50	-15.47	QP
5	285.9778	30.79	-9.24	21.55	46.00	-24.45	QP
6	431.0316	30.13	-6.08	24.05	46.00	-21.95	QP



EUT:	I	101kPa Polarization				DSMCM1 orizontal	
Pressure):						
Test volt				est mode:	Mode 1		
80.0 dl	BuV/m						
70							
60					FCC ClassB	3M Radiated QP	
50						Margin -6	dB
40							
30		2	* 	4 *	6		Jawaha peal
		_ _ _ _ _ _	1 1419 11 314	5	, T	1	
20		1. (////////////////////////////////////	MAN AND THE PROPERTY OF THE PR	Harry Mary Mary Mary Mary Mary Mary Mary	alway month month	Mary Market Market	
	Reference of the space of the state of the s	Land Company Company	HAM A PARKATA		North March	Mark Marks May be land the	,
	Mary resident to a second mary plans and a second desired	July Sunger	(MHz	Man Market Control		600.000	1000.0
10 Adm		July Sunger	(MHz	Man Market Comment			
10 Admin		July Sunger	Factor (dB/m)	Man Market Comment		600.000 Margin	1000.0
0.0 30.000	Frequency	0 90.000 Reading	Factor	300.	Limit	600.000 Margin	1000.0
0.0 30.000 No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m	Margin (dB)	Detecto
0.0 30.000 No.	Frequency (MHz) 74.1351	Reading (dBuV) 31.74	Factor (dB/m) -16.58	Level (dBuV/m) 15.16	Limit (dBuV/m	Margin (dB)	Detecto QP
0.0 30.000 No.	Frequency (MHz) 74.1351 112.1305	Reading (dBuV) 31.74 41.55	Factor (dB/m) -16.58 -15.31	Level (dBuV/m) 15.16 26.24	Limit (dBuV/m 40.00 43.50	Margin (dB) -24.84 -17.26	Detecto QP QP
No.	Frequency (MHz) 74.1351 112.1305 133.6188	Reading (dBuV) 31.74 41.55 46.46	Factor (dB/m) -16.58 -15.31 -15.25	Level (dBuV/m) 15.16 26.24 31.21	Limit (dBuV/m 40.00 43.50 43.50	Margin (dB) -24.84 -17.26 -12.29	Detecto QP QP QP



5.4 Occupied bandwidth

5.4.1 Test method

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥1% of the 20 dB bandwidth

VBW ≥RBW

Sweep = auto

Detector function = peak

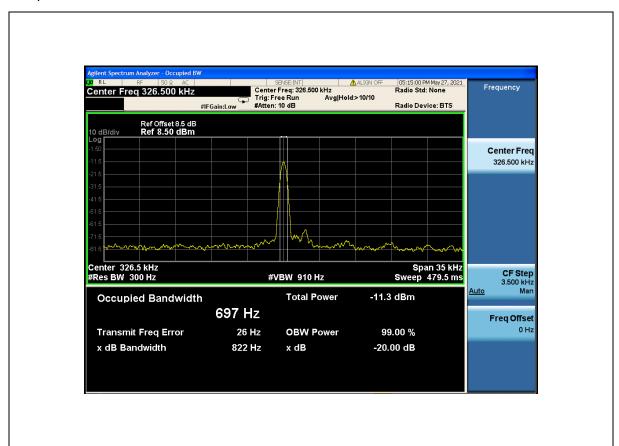
Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth and 99% occupied bandwidth of the emission.

5.4.2 Test result

Frequency (kHz)	20dB emission bandwidth (Hz)	99% occupied bandwidth (Hz)
326.5	822	697

Test plots as below:







Photographs of the EUT See the APPENDIX 1- EUT PHOTO. ----END OF REPORT----