

CTC Laboratories, Inc.

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٦	EST REPORT			
Report No. ·····:	CTC20200268E03			
FCC ID	2APPZ-X7A			
Applicant······:	Fanvil Technology Co., Ltd			
Address······	4F, Block A, Building 1#, GaoXinQl Hi-Tech Park(Phase-II), 67th District, Bao'An, Shenzhen, China			
Manufacturer:	Fanvil Technology Co., Ltd			
Address	4F, Block A, Building 1#, GaoXinQl Hi-	Tech Park(Phase-II), 67th		
Product Name·····:	IP phone			
Trade Mark······:	Fanvil			
Model/Type reference······:	X7A			
Listed Model(s) ·····:	N/A			
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247			
Date of receipt of test sample:	Mar. 10, 2020			
Date of testing	Mar. 11, 2020 to Mar. 18, 2020			
Date of issue	Mar. 19, 2020			
Result:	PASS			
Compiled by:		Tanne Su		
(Printed name+signature)	Terry Su	Tenny Su Miller Ma		
Supervised by:		noillair Na		
(Printed name+signature)	Miller Ma	///////////////////////////////////////		
Approved by:				
(Printed name+signature)	Walter Chen	Matter chis		
Testing Laboratory Name:	CTC Laboratories, Inc.			
Address	1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China			
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reviewer and approver. Any objections must be raised to CTC within 15 days since the date when the

report is received. It will not be taken into consideration beyond this limit. The test report merely correspond to the test sample.



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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

<u>RSS 247 Issue 2:</u> Standard Specifications for Frequency Hopping Systems (FHSs) and Digital Transmission Systems (DTSs) Operating in the Bands 902-928MHz, 2400-2483.5MHz and 5725-5850MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report version

Revised No.	Date of issue	Description
01	Mar. 19, 2020	Original



1.3. Test Description

FCC Part 15 Subpart C (15.247) / RSS 247 Issue 2					
Test Item	Standard	Section	Result	Test	
rest tiem	FCC	IC	Result	Engineer	
Antenna Requirement	15.203	/	Pass	Rod Lou	
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Jon Huang	
Band Edge Emissions	15.247(d)	RSS 247 5.5	Pass	Rod Lou	
6dB Bandwidth	15.247(a)(2)	RSS 247 5.2 (a)	Pass	Rod Lou	
Conducted Max Output Power	15.247(b)(3)	RSS 247 5.4 (d)	Pass	Rod Lou	
Power Spectral Density	15.247(e)	RSS 247 5.2 (b)	Pass	Rod Lou	
Transmitter Radiated Spurious	15.209&15.247(d)	RSS 247 5.5& RSS-Gen 8.9	Pass	Rod Lou	

Note: The measurement uncertainty is not included in the test result.



1.4. Test Facility

CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in th e identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Indus try Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (F CC) Federal Communications Commission. The acceptance letter from the FCC is maintained inour files. Registration 951311, Aug 26, 2017.

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties radio equipment characteristics; Part 2" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.



Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.6. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	21°C ~ 27°C
Relative Humidity:	40% ~ 60%
Air Pressure:	101kPa



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Fanvil Technology Co., Ltd
Address:	4F, Block A, Building 1#, GaoXinQl Hi-Tech Park(Phase-II), 67th District, Bao'An, Shenzhen, China
Manufacturer:	Fanvil Technology Co., Ltd
Address:	4F, Block A, Building 1#, GaoXinQl Hi-Tech Park(Phase-II), 67th District, Bao'An, Shenzhen, China

2.2. General Description of EUT

Product Name:	IP phone
Trade Mark:	Fanvil
Model/Type reference:	X7A
Listed Model(s):	N/A
Power supply:	Supplied from POE 5Vdc/2A from AC/DC Adapter
Adapter Model:	F12W8-050200SPAU Input:100-240V 50/60Hz 0.3A Output:5V/2A
Hardware version:	N/A
Software version:	N/A
BT 4.2/ BLE	
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	FPC Antenna
Antenna gain:	2.2dBi



2.3. Operation state

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. BT BLE, 40 channels are provided to the EUT. Channels 00/19/39 were selected for testing.

Operation Frequency List:

Channel	Frequency (MHz)
00	2402
01	2404
:	÷
18	2438
19	2440
20	2442
:	:
38	2478
39	2480

Note: The display in grey were the channel selected for testing.

Test mode

For RF test items:

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



2.4. Measurement Instruments List

Tonsce	Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 27, 2020	
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2021	
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 27, 2020	
4	Signal Generator	Agilent	E8257D	MY46521908	Dec. 27, 2020	
5	Power Sensor	Agilent	U2021XA	MY5365004	Dec. 27, 2020	
6	Power Sensor	Agilent	U2021XA	MY5365006	Dec. 27, 2020	
7	Simultaneous Sampling DAQ	Agilent	U2531A	TW54493510	Dec. 27, 2020	
8	Climate Chamber	TABAI	PR-4G	A8708055	Dec. 27, 2020	
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 27, 2020	
10	Climate Chamber	ESPEC	MT3065	/	Dec. 27, 2020	
11	300328 v2.2.2 test system	TONSCEND	v2.6	/	/	

Radiate	Radiated Emission and Transmitter spurious emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until	
1	EMI Test Receiver	Rohde & Schwarz	ESCI	100658	Dec. 27, 2020	
2	High pass filter	micro-tranics	HPM50111	142	Dec. 27, 2020	
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 27, 2020	
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec. 27, 2020	
5	Loop Antenna	LAPLAC	RF300	9138	Dec. 27, 2020	
6	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 27, 2020	
7	Horn Antenna	Schwarzbeck	BBHA 9120D	647	Dec. 27, 2020	
8	Pre-Amplifier	HP	8447D	1937A03050	Dec. 27, 2020	
9	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 27, 2020	
10	Antenna Mast	UC	UC3000	N/A	N/A	
11	Turn Table	UC	UC3000	N/A	N/A	
12	Cable Below 1GHz	Schwarzbeck	AK9515E	33155	Dec. 27, 2020	
13	Cable Above 1GHz	Hubersuhner	SUCOFLEX 102	DA1580	Dec. 27, 2020	
14	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 27, 2020	
15	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	Dec. 27, 2020	
16	RF Connection Cable	Chengdu E-Microwave			Dec. 27, 2020	

CTC Laboratories, Inc.





17	High pass filter	Compliance Direction systems	BSU-6	34202	Dec. 27, 2020
18	Attenuator	Chengdu E-Microwave	EMCAXX-10 RNZ-3		Dec. 27, 2020
19	High and low temperature box	ESPEC	MT3065	12114019	Dec. 27, 2020

Conducted Emission											
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until						
1	LISN	R&S	ENV216	101112	Dec. 27, 2020						
2	LISN	R&S	ENV216	101113	Dec. 27, 2020						
3	EMI Test Receiver	R&S	ESCI	100658	Dec. 27, 2020						

Note:1. The Cal. Interval was one year.

2. The cable loss has calculated in test result which connection between each test instruments.



3. TEST ITEM AND RESULTS

3.1. Conducted Emission

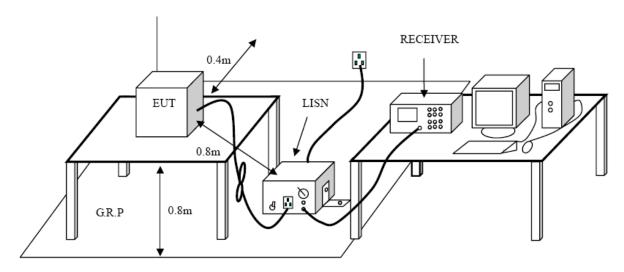
<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207/ RSS - Gen 8.8

	Limit (d	BuV)
Frequency range (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration



Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.

2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.

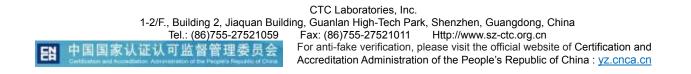
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

7. During the above scans, the emissions were maximized by cable manipulation.

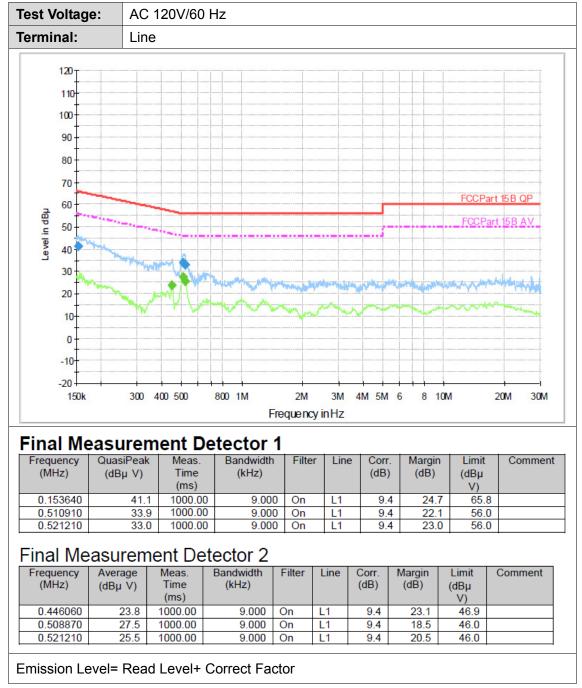




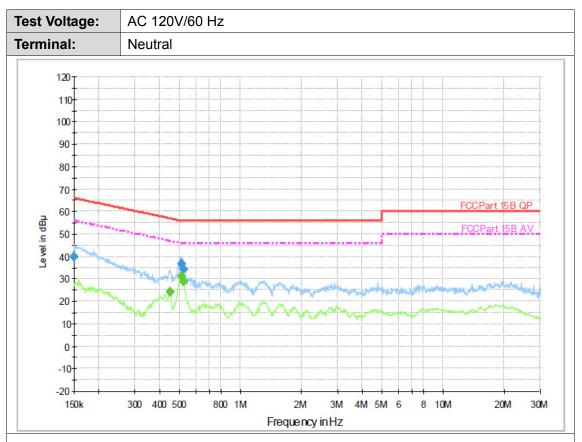
Test Mode:

Please refer to the clause 2.3.

Test Results







Final Measurement Detector 1

Frequency	QuasiPeak	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit	Comment			
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµ				
		(ms)						V)				
0.150000	39.7	1000.00	9.000	On	Ν	9.4	26.3	66.0				
0.508870	36.6	1000.00	9.000	On	Ν	9.4	19.4	56.0				
0.521210	34.5	1000.00	9.000	On	Ν	9.4	21.5	56.0				

Final Measurement Detector 2

Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.447850	24.4	1000.00	9.000	On	Ν	9.4	22.5	46.9	
0.506840	31.2	1000.00	9.000	On	Ν	9.4	14.8	46.0	
0.521210	28.8	1000.00	9.000	On	Ν	9.4	17.2	46.0	

Emission Level= Read Level+ Correct Factor



3.2. Radiated Emission

<u>Limit</u>

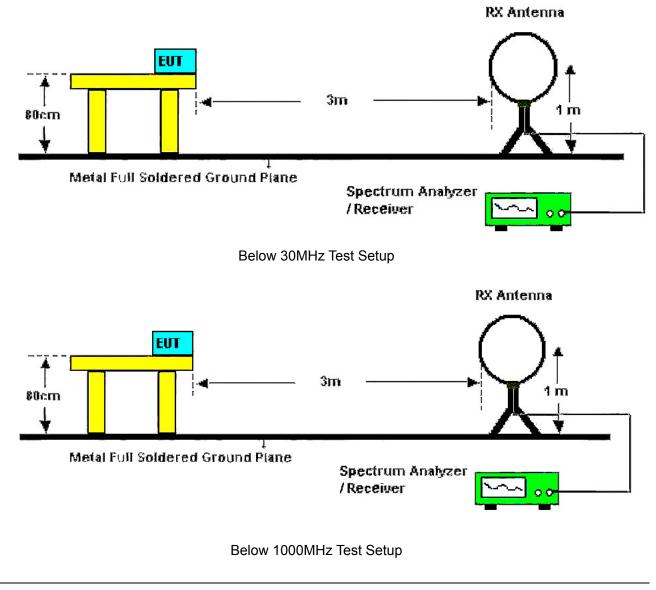
FCC CFR Title 47 Part 15 Subpart C Section 15.209/ RSS - Gen 8.9

Frequency	Limit (dBuV/m @3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
	54.00	Average
Above 1 GHz	74.00	Peak

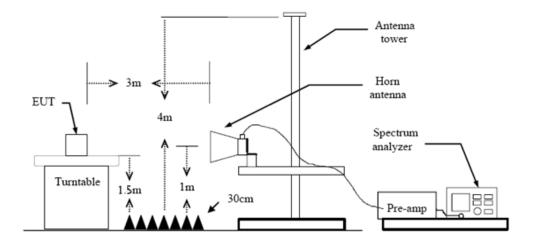
Note:

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

Test Configuration







Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013

The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for 2. above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.

3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.

For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna 4. tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.

Set to the maximum power setting and enable the EUT transmit continuously. 5.

- 6. Use the following spectrum analyzer settings
- (1) Span shall wide enough to fully capture the emission being measured;

(2) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(3) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW=10Hz with Peak Detector for Average Value.

Test Mode

Please refer to the clause 2.3.

Test Result

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.

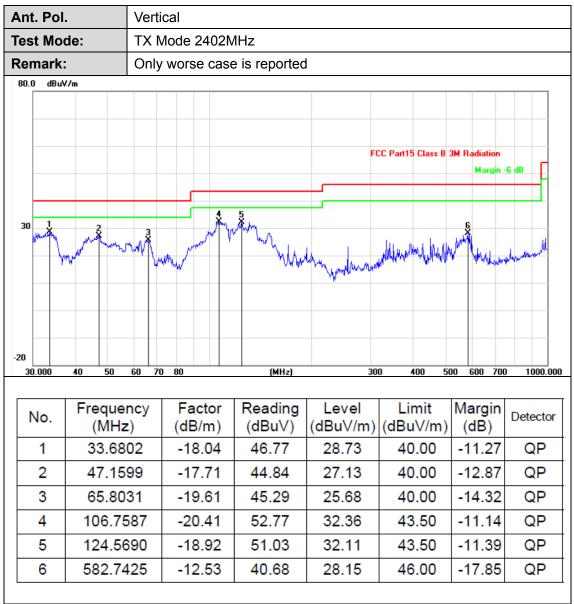


	l.	Hor	izontal									
Test Mo	de:	ТХ	Mode 2	24021	MHz							
Remark		Only	y worse	e cas	e is reported	d						
80.0 dBu	V/m											_
30 stracky				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Marina	Am Mark	5 	nt15 Clas	is B 3M Ri	Marg	n in -6 dB	
-20 30.000	40 50	60	70 80		(MHz)		300	400	500 6	600 7	700	100
No.	Frequer (MHz	-	Fac (dB/		Reading (dBuV)	Level (dBuV/m	Lir (dBu		Margi (dB))etect	or
1	68.87	21	-20	.19	41.81	21.62	40	.00	-18.3	8	QP)
				20	50.41	30.09	43	.50	-13.4	1	QP)
2	107.88	77	-20	.32	50.41							
2 3	107.88 213.76		-20 -20		45.33	24.92		.50	-18.5	_	QP	
		34	L	.41			43			8)
3	213.76	34 211	-20	.41 .96	45.33	24.92	43 46	.50	-18.5	58 58	QP)

2.Margin value = Level -Limit value







Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

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ΞŇ

Ant. Po	l.	Horizontal										
Test Mo	de:	TX B	LE Mode 2	402MHz								
Remark	K:		port for the ribed limit.	emission v	which more t	han 10 dB t	pelow the	;				
100.0 dBu	i¥/m		1									
					FCC Pa	rt15 Class C 3M Ab	ove-16 Peak					
					FCC	Part15 Class C 3M	Above-16 AV					
50	2 X											
	X											
0.0	3500.00 6(00.00	8500.00 110	000.00 13500.0	0 16000.00 1	8500.00 21000	00	26000.00 MH				
No.	Frequer (MHz		Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector				
1	4803.5	<i>,</i>	-2.82	34.63	31.81	54.00	-22.19	AVG				
2	4804.6	78	-2.82	49.42	46.60	74.00	-27.40	peak				
1	(MHz 4803.5 4804.6) 66	(dB/m) -2.82	(dBuV) 34.63	(dBuV/m) 31.81	(dBuV/m) 54.00	(dB) -22.19	AV				



ANT	. Pol		Ver	tical								
Fes	t Mo	de:	ТХ	BLE Mod	e 2402l	MHz						
Ren	nark	:		report for scribed lir		ission v	vhich	more t	han 1() dB b	pelow the	•
100.0	dBu\	//m						1				
								FCC Par	t15 Class	С ЗМ АЬ	ove-1G Peak	
								FCC	Part15 Cla	ss C 3M .	Above-16 AV	
50			2									
		,	2 K									
			Į									
			-									
									_			
0.0												
10	00.000	3500.00	6000.00	8500.00	11000.00	13500.0	0 160	00.00 1	8500.00	21000	.00	26000.00 M
L	00.000	3500.00	6000.00	8500.00	11000.00	13500.0	0 1600	00.00 1	8500.00	21000	.00	2600
N	lo.		uency Hz)	Facto (dB/m		ading BuV)		vel iV/m)	Lin (dBu		Margin (dB)	Detect
						4 00	31	.86	54	.00	-22.14	AVG
	1	4803	3.000	-2.82	2 3	4.68	51		01			

2.Margin value = Level -Limit value



nt. Pol		Hori	Horizontal											
est Mo	de:	TX E	BLE Mode 2	2440MHz										
Remark	:	No r pres	eport for th	e emission v	vhich more t	han 10 dB b	pelow the	!						
00.0 dBu	//m													
					FCC Pa	rt15 Class C 3M Ab	ove-16 Peak							
					FCC	Part15 Class C 3M	Above-1G AV							
50	5	2												
	2	ł												
0.0														
1000.000	3500.00	6000.00	8500.00 1	1000.00 13500.0	16000.00 1	8500.00 21000	.00	26000.00 MH						
No.	Frequ (Mi	uency Hz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector						
1	4879	9.606	-2.60	34.69	32.09	54.00	-21.91	AVG						
2	4879	9.842	-2.60	48.80	46.20	74.00	-27.80	peak						
2														

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Test Moc Remark:		No re	LE Mode 2 eport for the cribed limit.		which more t	han 10 dB t	pelow the	
100.0 dBuV	//m			emission v		han 10 dB t	below the	
	'/m							
					FLL Pa	t15 Class C 3M Ab	ove-16 Peak	
					FCC	Part15 Class C 3M	Above-1G AV	
50	2 X							
	1 X							
0.0	3500.00 60)00.00	8500.00 11	000.00 13500.0	0 16000.00 1	8500.00 21000	.00	26000.00 MHz
No.	Frequer		Factor	Reading	Level	Limit	Margin	Detector
	(MHz	<i>,</i>	(dB/m)	(dBuV)	(dBuV/m)	· · · ·	(dB)	
1	4879.1		-2.60	34.88	32.28	54.00	-21.72	AVG
2	4880.3	64	-2.60	49.32	46.72	74.00	-27.28	peak
Remarks								

2.Margin value = Level -Limit value



Ant. F	ol.		H	Horizontal											
Test N	Node	:	٦	ΓX Ε	BLE I	Mod	le 2	480N	1Hz						
Rema	rk:				epor cribe			e emi	ssion	which	more t	han 10) dB b	pelow the	
100.0	dBu¥∕m		F												
											FCC Pa	rt15 Class	C 3M AL	oove-1G Peak	
											FCC	Part15 Cla	ss C 3M	Above-1G AV	
50			X												
		-	X												
0.0	000 350		6000		8500			DOO.00	13500	00 100	00.00 1	18500.00	21000		26000.00 MH
No.	. F	requ (MI		у		acto B/m			ading 3u∨)		evel iV/m)	Lin (dBu\		Margin (dB)	Detector
1		4959		2	×	2.38	<i>'</i>	×	3.86	•	.48	(ubu 74.		-27.52	peak
2		4960				2.38			.61		.23	54.		-21.77	AVG
Rema	rks:											<u> </u>		fier Facto	



Ant.	Pol	•		Ver	tical											
Test	Mo	de:		ТΧ	BLE	Mod	e 24	480MI	Hz							
Rem	hark	:			repor scribe			emis	sion \	vhich	more	than	10 dB	below the	9	
100.0	dBu'	//m														
											FCC Pa	art15 Cl	ass C 3M A	bove-16 Peak		
											FCC	Part15	Class C 3	Above-16 AV	,	
50			2													
			2X													
			ł													
0.0	00.000	2500		6000.00	050	0.00	111	00.00	13500.	00 100	00.00	18500.	00 2100	0.00	26000.00 M	
N	0.		eque (MHz		1	acto B/m	I	Rea (dB	-	Le [.] (dBu	vel V/m)		imit uV/m)	Margin (dB)	Detector	
	1	4	959.0	060	-	2.38	3	34.	60	32	.22	5	4.00	-21.78	AVG	Τ
1	2	4	959.´	108	-	2.38	3	48.	89	46	.51	7	4.00	-27.49	peak	T
										•						
	ctor	(dB/	/m) = ue = l					lB/m)+	⊦Cabl	e Fact	tor (dE	3)-Pr	e-ampl	ifier Facto	or	

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3.3. Band Edge Emissions

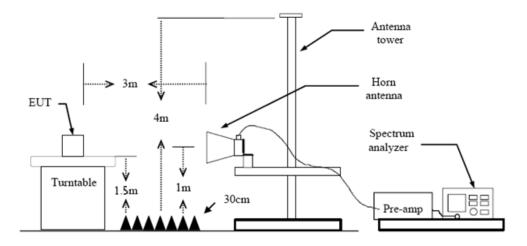
<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)/ RSS 247 5.5:

Restricted Frequency Band	(dBuV/m)(at 3m)				
(MHz)	Peak	Average			
2310 ~2390	74	54			
2483.5 ~2500	74	54			

Conducted band edge limit: The highest point of the operating frequency waveform down 20dB

Test Configuration



Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow: RBW=1MHz, VBW=3MHz Peak detector for Peak value. RBW=1MHz, VBW=10Hz with Peak Detector for Average Value.

Test Mode

Please refer to the clause 2.3.

Test Results

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(1) Radiation Test

Ant. I	Pol.		Hori	zonta	al							
'est l	Mode	:	BLE	Mod	le 24	02	MHz					
110.0	dBu¥/m											
									500 B			
									FCC Pa	nt15 Class C 3M	Above-1G Peak	
												\wedge
60									FCC	Part15 Class C	3M Above-1G AV	\square
											1 /	
											*	<u> </u>
0.0	.000 231	0.00 0	329.00	233		224	9.00 2359	00 22	69.00	2379.00 23	39.00	2409.00 M
No	. F	reque (MHz	-		actor B/m)		Reading (dBuV)	-	evel uV/m)	Limit (dBuV/m	Margin (dB)	Detector
1		2390.0	000	-8	8.10		48.80	40).70	74.00	-33.30	peak
2		2390.0	000	-8	B.10		37.32	29	9.22	54.00	-24.78	AVG



Ant. Po	I.	Vert	ical					
est Mo	de:	BLE	Mode 2402	2MHz				
110.0 dBu	ıV/m							
					500.0		10.0	
-					FCC Pa	t15 Class C 3M Ab	ove-16 Peak	
60							1	
					FCC	Part15 Class C 3M	Above-1G AV	
							/	
						×		\rightarrow
						3		
2309.000	2319.00	2329.00	2339.00 23	49.00 2359.00	2369.00 2	2379.00 2389.0	00	2409.00 MH;
No.	Freque (MH		Factor (dB/m)	Reading (dBu∀)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.	1	-8.10	49.15	41.05	74.00	-32.95	peak
2	2390.	000	-8.10	37.41	29.31	54.00	-24.69	AVG
	1			1	1	1	1	
	s:							



Ant. Po	Ι.	Hori	zontal					
lest Mo	de:	BLE	Mode 2480) MHz				
110.0 dB	uV/m							
					FCC Pa	rt15 Class C 3M Al	ove-1G Peak	
60	Λ							
	/				FCC	Part15 Class C 3M	Above-1G AV	
	/ ¥							
					······································			
10.0								
2472.00	0 2482.00	2492.00	2502.00 25	12.00 2522.00	0 2532.00	2542.00 2552.	00	2572.00 M
No.	Freque (MH		Factor (dB/m)	Reading (dBu∀)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.	500	-7.68	57.57	49.89	74.00	-24.11	peak
2	2483.	500	-7.68	47.76	40.08	54.00	-13.92	AVG
Remark	s:							

2.Margin value = Level -Limit value



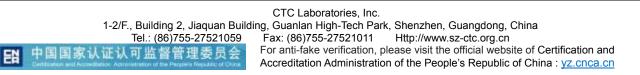
Ant. Po	ol.	Vert	ical					
Test Mo	ode:	BLE	Mode 248	80 MHz				
110.0 dB	luV/m							
60						rt15 Class C 3M Ab Part15 Class C 3M		
10.0								
2410.00	0 2480.00	2490.00	2500.00 2	2510.00 2520.0	0 2530.00 2	2540.00 2550.0		<u>2570.00 MH</u>
No.	Freque (MH		Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.	500	-7.68	62.30	54.62	74.00	-19.38	peak
2	2483.	500	-7.68	50.85	43.17	54.00	-10.83	AVG
Remark	(S:							
1.Facto	or (dB/m) =		ina Factor -Limit value		le Factor (dE	8)-Pre-ampli	fier Facto	or



(2) Conducted Test

CH00		691 pts Y-value Function z 5.19 dBm z -51.16 dBm z -52.77 dBm	5.1 2.4018 -51.1 2.4000		
Mark frequency(MHz)	Date: 12.MAR.2020 08:56:34 Value (dBm)	Limit	(dBm)	Result	
2400.000	-51.16		· · ·		
2390.000	-62.74	-14	-14.81		
2399.978	-53.28		1		

	Spectrum Image: Constraint of the sector of t
CH39	EQUIT 280/300 IP IR View M1[1] 3.03 dBm 10 dBm M2[1] 2.480500 GHz 0 dBm M2[1] 2.480500 GHz -10 dBm M2[1] 2.480500 GHz -20 dBm D1-16.970 dBm D1 -30 dBm M3 D1 -50 dBm M3 D1 -60 dBm M3 M3 -70 dBm M3 M3 -70 dBm M3 M3 -70 dBm M3 M2 -70 dBm M3 M3 -70 dBm M3 M3 -70 dBm M3 M3 -70 dBm M3 M2 -70 dBm M3 M3 -70 dBm M3 M3 -70 dBm M3 M3 -70 dBm M3 M2 -70 dBm M3 M3 -70 dBm M3 M3 -70 dBm M3 M3 -1 2.493565 GHz -59.05 dBm M4 1 2.493565 GHz -59.167 dBm
Mark frequency(MHz)	Value (dBm) Limit (dBm) Result
2483.500	-59.05
2500.000	-61.67 -16.97 Pass
2483.565	-58.14





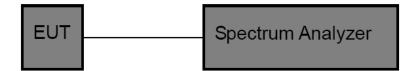
3.4. Bandwidth

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)/ RSS-247 5.2 a:

Test Item	Limit	Frequency Range(MHz)
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- 2. DTS Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) \geq 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.
 - OCB Spectrum Setting:
 - (1) Set RBW = $1\% \sim 5\%$ occupied bandwidth.
 - (2) Set the video bandwidth (VBW) \ge 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

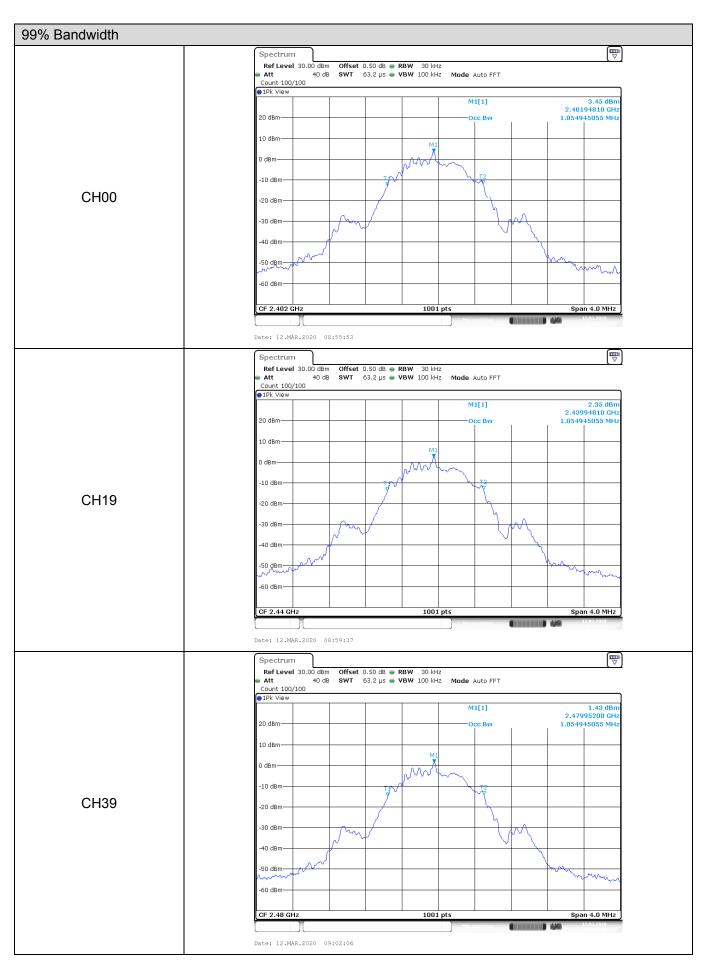
<u>Test Mode</u>

Please refer to the clause 2.3.

<u>Test Results</u>

Туре	Channel	99% Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
	00	1.055	0.732		Pass
BT-BLE	19	1.055	0.732	≧500	
	39	1.055	0.728		





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3 Bandwidth	
	Spectrum
	Ref Level 30.00 dBm Offset 0.50 dB RBW 100 kHz
	● Att 40 dB SWT 18.9 µs ● VBW 300 kHz Mode Auto FFT Count 100/100
	●1Pk View M1[1] -0.88 dBm
	20 dBm 2.40158800 GHz 2.40158800 GHz 5.16 dBm
	10 dBm 2.40194400 GHz
	D dBm D1 -0.844 dBm
	-10 dBm
	-20 dBm
	-30 dBm
CH00	
	-40 dBm
	-50 dBm
	-60 dBm-
	CF 2.402 GHz 1001 pts Span 4.0 MHz
	Marker Type Ref Trc X-value Y-value Function Function Result
	M1 1 2.401588 GHz -0.88 dBm M2 1 2.401944 GHz 5.16 dBm
	M2 1 2.401947 dHz 3.10 ddm D3 M1 1 732.0 kHz -0.15 dB
	Neasorino 11.03.2020
	Date: 12.MAR.2020 08:55:35
	Spectrum 🕎
	Ref Level 30.00 dBm Offset 0.50 dB ● RBW 100 kHz ● Att 40 dB SWT 18.9 µs ● VBW 300 kHz Mode Auto FFT
	Count 100/100
	●1Pk View M1[1] -2.04 dBm
	20 dBm 22.43958800 GHz 4.09 dBm
	10 dBm 2.43994800 GHz
	0 dBm 01 -1.907 dBm
	-10 dBm-
	-20 dBm
CH19	-30 dBm
	-40 dBm
	750 dBm
	-60 dBm
	CF 2.44 GHz 1001 pts Span 4.0 MHz
	Marker Tune Pef Tro Y-value Y-value Eurotion Eurotion Result
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dBm -2.04 dBm -2.04 dBm
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dBm
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dBm
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dbm
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dBm
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dBm
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dBm 1 1 2.439948 GHz 4.09 dBm 1
	Type Ref Trc X-value Y-value Function Function Result M1 1 2,439588 GHz -2.04 dBm -2.04 d
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dBm
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dBm
	Type Ref Trc X-value Y-value Function Function Result M1 1 2,439588 GHz -2.04 dBm
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dBm
	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dBm -2.04
	Type Ref Trc X-value Y-value Function Function Result M1 1 2,439588 GHz -2.04 dBm
СН39	Type Ref Trc X-value Y-value Function Function Result M1 1 2,439588 GHz -2.04 dBm
CH39	Type Ref Trc X-value Y-value Function Function Result M1 1 2,439588 GHz -2.04 dBm
CH39	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dBm
СНЗ9	Type Ref Trc X-value Function Function Function Result M1 1 2.439588 GHz -2.04 dBm -2.47959600 GHz -2.47959600 GHz -2.47959600 GHz -2.47959600 GHz -2.47959600 GHz -2.47959500 GHz -2.4795500 GHz -2.47955500 GHz -2.47955500 GHz
СН39	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dbm -2.04 d
CH39	Type Ref Trc X-value Function Function Result M1 1 2.439588 GHz -2.04 dBm -2.094 dBm -2.094 dBm -2.094 dBm -2.04 dBm -2.47995600 GHz -2.0795600 GHz -2.47995200 GHz -2.0795200 GHz
CH39	Type Ref Trc X-value Y-value Function Function Result M1 1 2,439588 GHz -2.04 dbm 100 dbm
CH39	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439888 GHz -2.04 dBm -2.47959600 GHz 3.14 dBm -2.47959600 GHz 3.14 dBm -2.47959600 GHz 3.14 dBm -2.47959200 GHz 3.14 dBm -2.47959200 GHz 3.14 dBm -2.47959200 GHz 3.14 dBm -2.04 dBm -2.47959200 GHz -2.04 dBm -2.47959200 GHz -2.04 dBm -2.4795920 GHz -2.04 dBm
СН39	Type Ref Trc X-volue Function Function Result M1 1 2.439589 GHz -2.04 dBm 1 2.439948 GHz 0.06 dB 1 2.000 DBm 2.000 DB
СН39	Type Ref Trc X-value Y-value Function Function Result M1 1 2.439588 GHz -2.04 dbm -2.04 d

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EN

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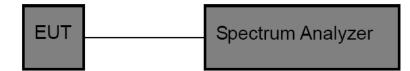
3.5. Peak Output Power

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)/ RSS-247 5.4 d:

Section	Test Item	Limit	Frequency Range(MHz)
CFR 47 FCC 15.247(b)(3)	Maximum conducted output power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	EIRP	4 Watt or 36dBm	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.

2. Spectrum Setting:

Peak Detector: RBW≥DTS Bandwidth, VBW≥3*RBW.

Sweep time=Auto.

Detector= Peak.

Trace mode= Maxhold.

Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.3

<u>Test Result</u>

Туре	Channel	Output power (dBm)	Limit (dBm)	Result
	00	5.87		
BT-BLE	19	4.78	≤30.00	Pass
	39	3.89		



Test plot as follows:

	Spectrum Ref Level 30.00 dBm Offset 0.50 dB ● RBW 1 MHz
	🥌 Att 40 dB SWT 1.9 μs 🖷 VBW 3 MHz Mode Auto FFT
	Count 100/100 IPk View
	M1[1] 5.87 dBn 2.40171640 GH
	20 dBm
	10 dBm
	0 dBm
	-10 dBm
CH00	-20 dBm
	-30 dBm
	-40 dBm
	-50 dBm
	-60 dBm
	CF 2.402 GHz 691 pts Span 4.0 MHz
	Measuring
	Date: 12.MAR.2020 08:56:06
	Spectrum T
	RefLevel 30.00 dBm Offset 0.50 dB ● RBW 1 MHz ● Att 40 dB SWT 1.9 µs ● VBW 3 MHz Mode Auto FFT
	_Count 100/100
	PIK View M1[1] 4.78 dBn
	20 dBm 20 dBm 21.44020840 GH
	10 dBm M1
	0 dBm
	-10 dBm
CH19	
	-20 dếm
	-30 dBm
	-40 dBm
	-50 dBm
	-60 dBm
	CF 2.44 GHz 691 pts Span 4.0 MHz
	Neasuring 12.43.2020
	Date: 12.MAR.2020 08:59:50
	Spectrum \[\] \[
	Spectrum Image: Constraint of the system of t
	Spectrum mm Ref Level 30.00 dBm Offset 0.50 dB ● RBW 1 MHz ● Att 40 dB SWT 1.9 µs ● VBW 3 MHz Mode Auto FFT Count 100/100 Count 100/100 Count 100/100 Count 100/100 Count 100/100
	Spectrum Image: Construction of the second se
	Spectrum RefLevel 30.00 dBm Offset 0.50 dB ● RBW 1 MHz ● Att 40 dB SWT 1.9 µs ● VBW 3 MHz Mode Auto FFT Count 100/100 ● 1Pk View
	Spectrum Imp Ref Level 30.00 dBm Offset 0.50 dB ● RBW 1 MHz ● Att 40 dB SWT 1.9 µs • VBW 3 MHz Mode Auto FFT Count 100/100 ● IPk View 0
	Spectrum Important Ref Level 30.00 dBm Offset 0.50 dB ● RBW 1 MHz • Att 40 dB SWT 1.9 µs • VBW 3 MHz Count 100/100 • IPk View 20 dBm 10 dBm
	Spectrum Imp Ref Level 30.00 dBm Offset 0.50 dB ● RBW 1 MHz ● Att 40 dB SWT 1.9 µs • VBW 3 MHz Mode Auto FFT Count 100/100 ● IPk View 0
	Spectrum Important Ref Level 30.00 dBm Offset 0.50 dB ● RBW 1 MHz • Att 40 dB SWT 1.9 µs • VBW 3 MHz Count 100/100 • IPk View 20 dBm 10 dBm
СН39	Spectrum Image: Construction of the state
СН39	Spectrum The system Ref Level 30.00 dBm Offset 0.50 dB RBW 1 MHz Att 40 dB SWT 1.9 µs VBW 3 MHz Count 100/100 1Pk View M1[1] 3.89 dBm 20 dBm 10 dBm M1 0 dBm
СН39	Spectrum Image: Construction of the state
СН39	Spectrum Image: Construction of the second sec
СН39	Spectrum The second secon
СН39	Spectrum Image: Construction of the second sec
CH39	Spectrum The second secon
СН39	Spectrum Image: Construction of set 0.50 dB @ RBW 1 MHz Att 40 dB SWT 1.9 µs @ VBW 3 MHz Mode Auto FFT Count 100/100 19 k View 0 19 k View 10 4 m 10 dBm M1 -20 dBm M1 -30 dBm -30 dBm -30 dBm -30 dBm
СН39	Spectrum The second secon
СН39	Spectrum The second secon

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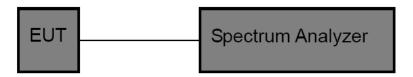
3.6. Power Spectral Density

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)/ RSS-247 5.2 b:

Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- 2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.

3. Spectrum Setting:

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz

Set the VBW to: 10 kHz

Detector: peak

Sweep time: auto

Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.3

Test Result

Туре	Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	00	-8.40		
BT-BLE	19	-9.49	≤8.00	Pass
	39	-10.42		



Test plot as follows:

lest plot as follows:				
	Spectrum ▼			
	Ref Level 20.50 dBm Offset 0.50 dB ● RBW 3 kHz ● Att 30 dB SWT 631.9 µs ● VBW 10 kHz Mode Auto FFT			
	Count 100/100			
	●1Pk View M1[1] -8.40 dBm			
	2.4019354130 GHz			
	0 dBm			
	-10 dBm			
	1 and south MARTIN MARTIN MARTIN MARTING AND A CONTRACT AND A			
CH00				
	y≢ð"dBm			
	-50 d8m			
	-60 dBm			
	-70 dBm			
	CF 2.402 GHz 30000 pts Span 1.464 MHz			
	Or 2.402 GHz Studio prs Span 1.404 Hinz Neasuring 12.03200			
	Date: 12.MAR.2020 08:56:18			
	Spectrum			
	Ref Level 20.50 dBm Offset 0.50 dB RBW 3 kHz			
	Count 100/100 PIPk View			
	M1[1] -9.49 dBm			
	10 dBm			
	0 dBm			
	-10 dBm			
	-20 dBm			
CH19				
СПІЭ				
	-50 dBm			
	-60 dBm			
	-70 dBm			
	-70 ubin			
	CF 2.44 GHz 30000 pts Span 1.464 MHz			
	Measuring Matterna 👬 12,03,2020			
	Date: 12.MAR.2020 09:00:02			
	Spectrum 🕎			
	Ref Level 20.50 dBm Offset 0.50 dB 🖷 RBW 3 kHz			
	Att 30 dB SWT 631.9 μs VBW 10 kHz Mode Auto FFT Count 100/100			
	●1Pk View			
	M1[1] -10.42 dBm 2.4799427550 GHz			
	10 dBm			
	0 dBm			
	M1			
CH39	-20 dBm			
	-50 dBm			
	-60 dBm 7			
	-70 dBm			
	CF 2.48 GHz 30000 pts Span 1.456 MHz			
	CF 2.46 GHZ South µS Spain 1.400 MHZ Image: Spain 1.400 MHZ Image: Spain 1.400 MHZ Image: Spain 1.400 MHZ Date: 12.MAR.2020 09:02:31 Image: Spain 1.400 MHZ Image: Spain 1.400 MHZ			

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3.7. Antenna requirement

<u>Requirement</u>

FCC CFR Title 47 Part 15 Subpart C Section 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. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

<u>Test Result</u>

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.