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FCC TEST REPORT

Application No:	ZR/2020/50027			
Applicant:	Lenovo(Shanghai) Electronics Technology Co., Ltd.			
Address of Applicant	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone			
Manufacturer:	Lenovo PC HK Limited			
Address of Manufacturer	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong P.R.China			
EUT Description:	Portable Tablet Computer			
Model No.:	Lenovo TB-X306X			
Trade Mark:	Lenovo			
FCC ID:	O57TBX306X			
Standards:	47 CFR FCC Part 2, Subpart J			
	47 CFR Part 15, Subpart C			
Test Method	KDB558074 D01 15.247 Meas Guidance v05r02			
	ANSI C63.10 (2013)			
Date of Receipt:	2020/5/7			
Date of Test:	2020/5/10 to 2020/5/20			
Date of Issue:	2021/4/30			
Test Result:	PASS *			

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

Authorized Signature:

Derde yang

Derek Yang Wireless Laboratory Manager



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1 Version

Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2020/6/26		Original		
01		2021/4/30	Flora Wang	1.Add test site Information2.Modify data conversionerror of antenna height3.Update equipment list		

*This report supersedes our previous report ZR/2020/5002708, issued on 2020-06-26, which is hereby deemed null and void.

Authorized for issue by:		
Prepared By	Floron Wang	
	(Flora Wang) /Project Engineer	
Checked By	David Chen	
	(David Chen) /Reviewer	

Remark:

There difference between Lenovo TB-X306F and Lenovo TB-X306X,

They are only difference on BOM and Software:

Lenovo TB-X306F is lack some components for GSM/WCDMA/LTE, and change software to disable GSM/WCDMA/LTE function.

According to the difference above, there were only spot-check for radiated emission on TB-X306X, since no data become worse, all data were copied from the report of Lenovo TB-X306F(Report No.: ZR/2020/5000103-01).



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2 Test Summary

Test Item	Test Requirement	Test method	Test Result	Result	Test Lab*
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS	В
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS	A
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS	А
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS	A
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS	A
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS	A
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS	В
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS	В

Remark: All test were performed by Lab A and B.

Parts of test items above were subcontracted to Lab B.

Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch.

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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3 General Information

3.1 Client Information

Applicant:	Lenovo(Shanghai) Electronics Technology Co., Ltd.
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong P.R.China

3.2 Test Location

Lab A:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Dee Zheng, Mike Hu

Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Ben Huang, Leah Chen

3.3 Test Facility

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

Lab A:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1178



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SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by

ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.



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3.4 General Description of EUT

EUT Description::	Portable Tablet Computer
Model No.:	Lenovo TB-X306X
Trade Mark:	Lenovo
Hardware Version:	Lenovo TB-X306X
Software Version:	TB-X306X_RF01_200620
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth Version:	Bluetooth V5.0 LE
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable Device, Module
Antenna Type:	External, 🛛 Integrated
Antenna Gain:	-3.5dBi
Power Supply:	AC/DC Adapter; Battery; PoE:; Other:

Operation Frequency of each channel							
Channel	nel Frequency Channel Frequency Channel Frequency				Channel	Frequency	
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Remark:

S

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz



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3.5 Test Environment

Operating Environment			
Temperature:	25.0 °C		
Humidity:	50 % RH		
Atmospheric Pressure:	101.32 KPa		

3.6 Description of Support Units

The EUT has been tested independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -3.5dBi.



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Test Requirement:	47 CFR Part 15C Section 15				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:					
		Limit (dBuV)			
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
Limit:	0.5-5	56	46		
	5-30	60	50		
			50		
Test Procedure:	 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 				
Test Setup:	Shielding Room	Te	Inst Receiver		

4.2 **AC Power Line Conducted Emissions**

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Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass



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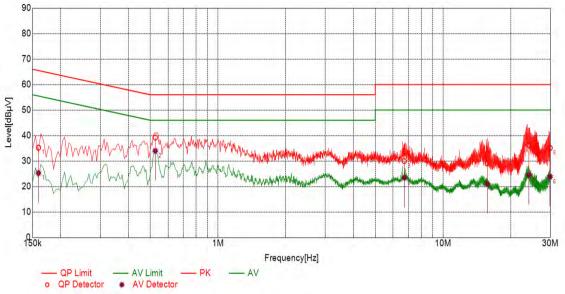
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



Test Graph

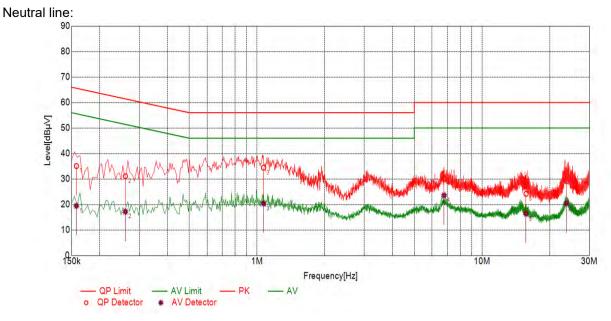
Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.1594	10.10	35.27	65.49	30.22	25.32	55.49	30.17	L
2	0.5267	10.10	39.21	56.00	16.79	33.98	46.00	12.02	L
3	6.7288	10.10	29.95	60.00	30.05	23.46	50.00	26.54	L
4	15.7030	10.11	29.05	60.00	30.95	21.00	50.00	29.00	L
5	24.0885	10.11	36.23	60.00	23.77	24.57	50.00	25.43	L
6	29.9025	10.11	35.10	60.00	24.90	23.87	50.00	26.13	L



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Test Graph

Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Туре
1	0.1577	10.10	35.09	65.58	30.49	19.45	55.58	36.13	Ν
2	0.2603	10.10	31.13	61.42	30.29	17.19	51.42	34.23	Ν
3	1.0689	10.10	34.42	56.00	21.58	20.42	46.00	25.58	Ν
4	6.7828	10.10	30.09	60.00	29.91	23.61	50.00	26.39	Ν
5	15.6866	10.11	24.17	60.00	35.83	16.35	50.00	33.65	Ν
6	23.7298	10.11	29.10	60.00	30.90	20.42	50.00	29.58	N

Remarks:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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4.3 Duty Cycle

4.3.1.1

4.3.1	Test Results		
Test Mode		TX Freq. [MHz]	Duty cycle [%]
BLE_1M		CH0, CH19, CH39	85.46
BLE_2M		CH0, CH19, CH39	57.14

4.3.1 Test Plots

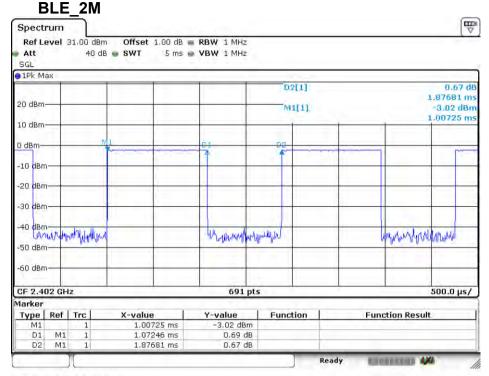
Spect	um	1.0					
Ref L	evel	31.00 dBn	Offset 1.00 dB	RBW 1 MHz			
Att		40 de	🗑 🗑 SWT 8 ms 🛊	VBW 1 MHz			
SGL							
01Pk M	эх						
	1				D2[1]		0.09 d
20 dBm							2,5029 m
20 aBm					M1[1]		-2.08 dB)
10 dBm					1		1,1696 m
0 dBm-	_	144		01 02			
100		Mrt		4			
-10 dBm		-					
-20 dBm							
-30 dBm							
-30 UBI		1.1					
-40 dBm	-						
10	pr	An		WWW		2 physe	
-50 dBm		~	-				-
-60 dBm	-						
CF 2.4	02 GH	z		691 pt	s		/sy 0.008
Marker							
Type	Ref		X-value	Y-value	Function	Fu	nction Result
M1		1	1.1696 ms	-2.08 dBm			
D1 D2	M1 M1	1	2.1391 ms 2.5029 ms	0.06 dB 0.09 dB			
UZ	INIT	4	2.5029 ms	0.09 08		1	

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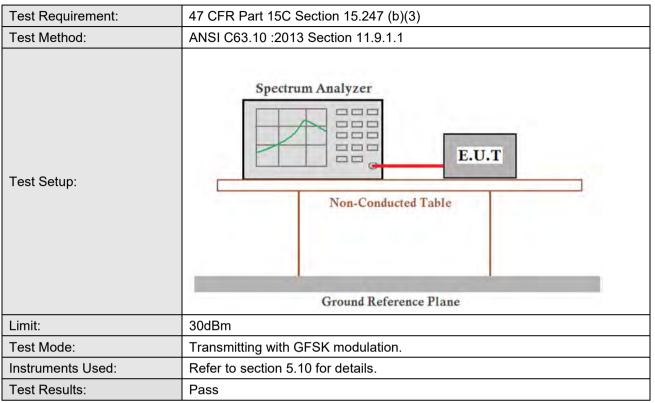
4.3.1.2



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4.4 Conducted Output Power



4.4.1 **Test Results** Measurement Data of Average Power

	industrisini Bata si Atterage i sinoi					
GFSK_1M mode						
Test channel	Average Output Power (dBm)	Result				
Lowest	-3.45	Report purpose only				
Middle	-2.46	Report purpose only				
Highest	-3.79	Report purpose only				

GFSK_2M mode				
Test channel	Average Output Power (dBm)	Result		
Lowest	-5.15	Report purpose only		
Middle	-4.14	Report purpose only		
Highest	-5.52	Report purpose only		



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Measurement Data of Peak Power:

GFSK_1M mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	-1.72	30.00	Pass		
Middle	-0.75	30.00	Pass		
Highest	-2.13	30.00	Pass		

GFSK_2M mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	-1.80	30.00	Pass		
Middle	-0.77	30.00	Pass		
Highest	-2.11	30.00	Pass		

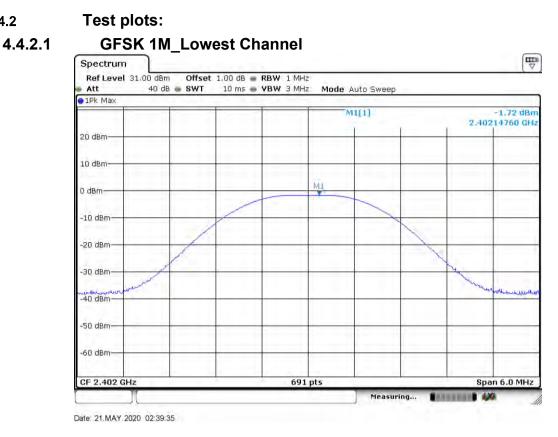


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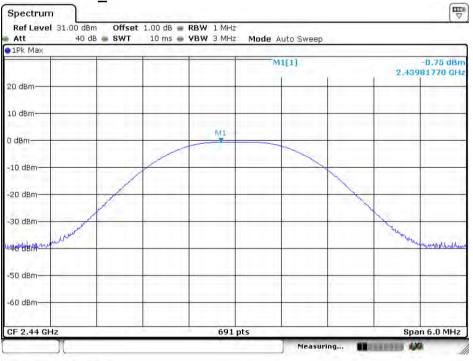
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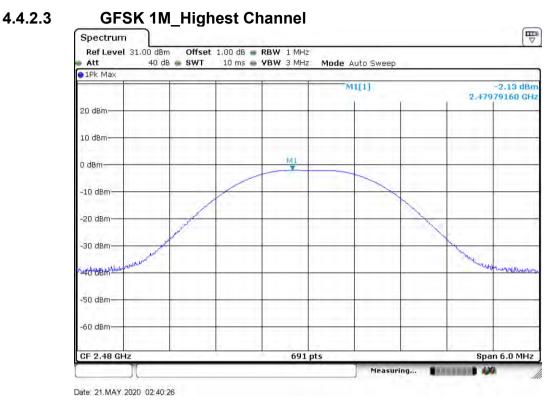


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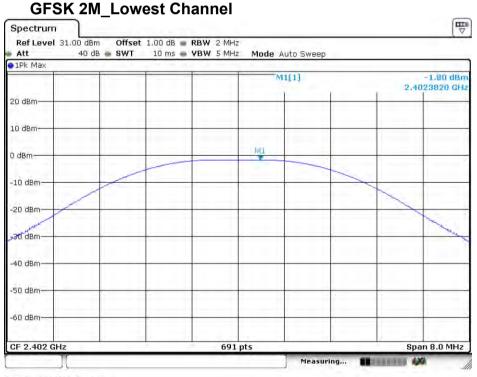


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4.4.2.4 GFSK 2M Lowest

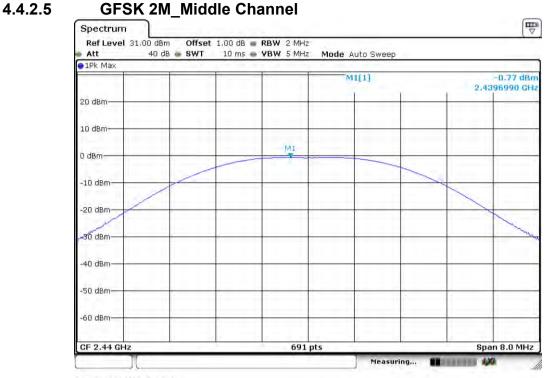


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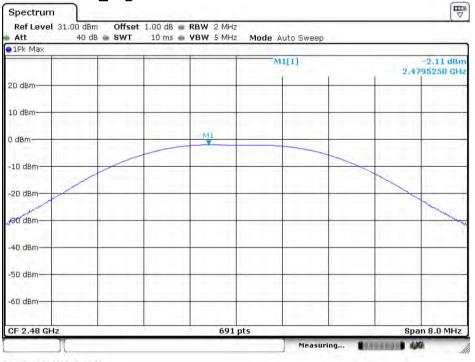
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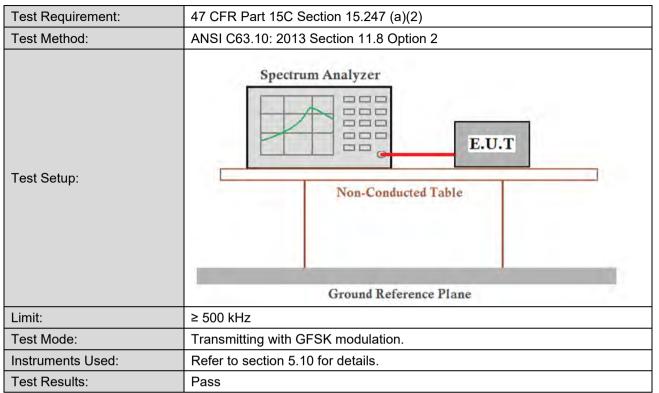


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4.5 DTS (6 dB) Bandwidth

4.5.1

Test Results

Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_1M	Lowest	0.67	≥500	Pass
	Middle	0.67	≥500	Pass
	Highest	0.67	≥500	Pass

Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_2M	Lowest	1.16	≥500	Pass
	Middle	1.17	≥500	Pass
	Highest	1.17	≥500	Pass



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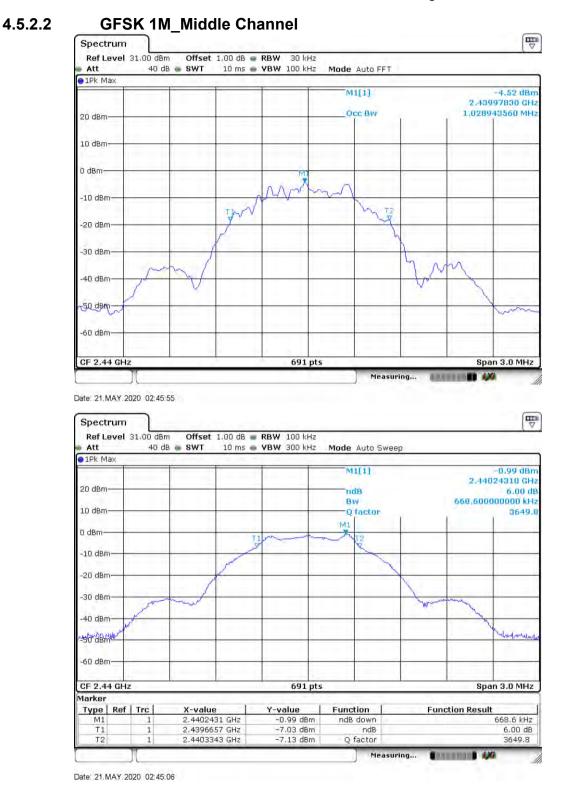


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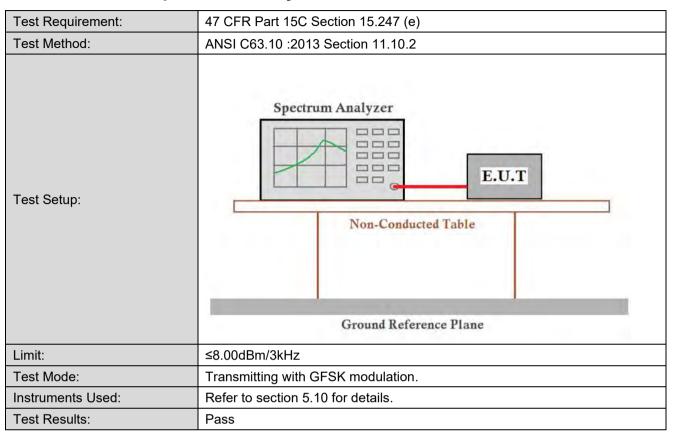
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4.6 **Power Spectral Density**



4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-18.42	≤8.00	Pass
GFSK_1M	Middle	-17.37	≤8.00	Pass
	Highest	-17.78	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-20.62	≤8.00	Pass
GFSK 2M	Middle	-19.58	≤8.00	Pass
_	Highest	-20.99	≤8.00	Pass



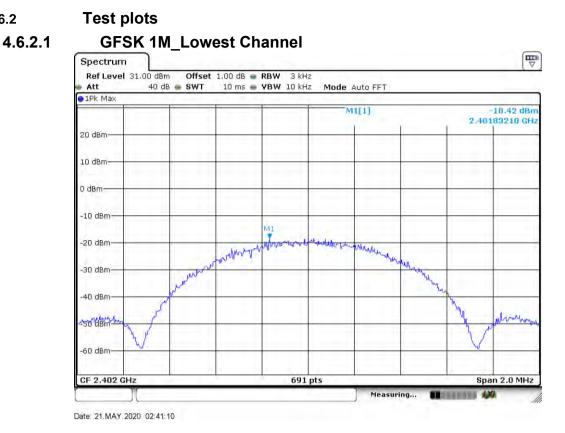
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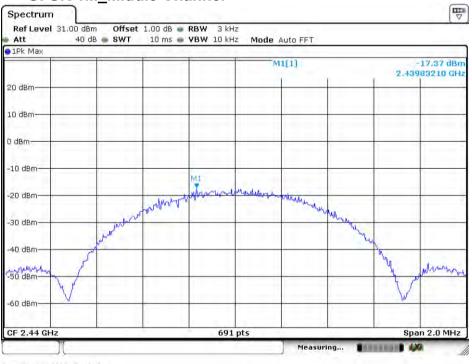
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4.6.2.2 GFSK 1M_Middle Channel

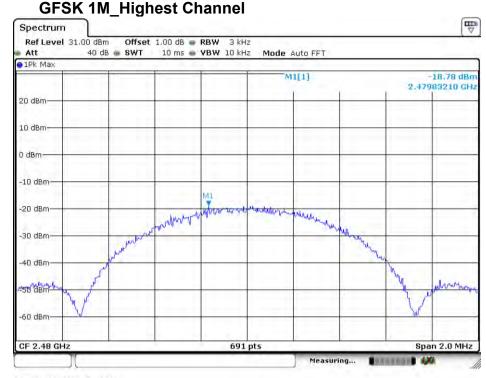


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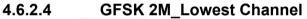
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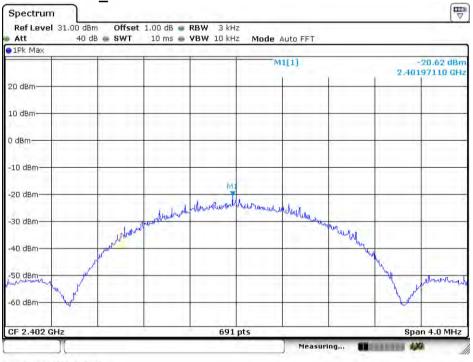


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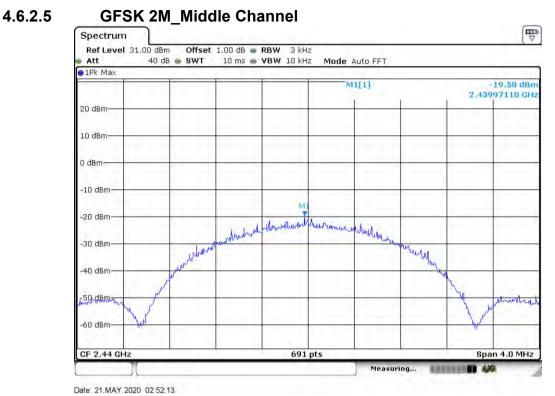


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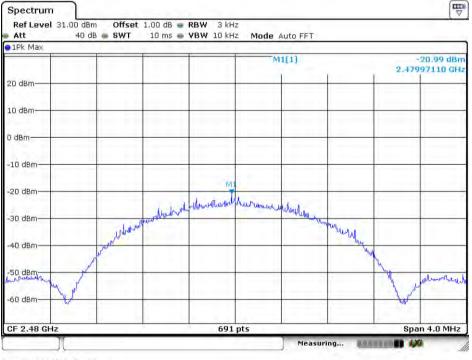
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4.6.2.6 GFSK 2M_Highest Channel



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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)	
Test Method:	ANSI C63.10: 2013 Section 11.13	
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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.	
Test Mode:	Transmitting with GFSK modulation.	
Instruments Used:	Refer to section 5.10 for details.	
Test Results:	Pass	



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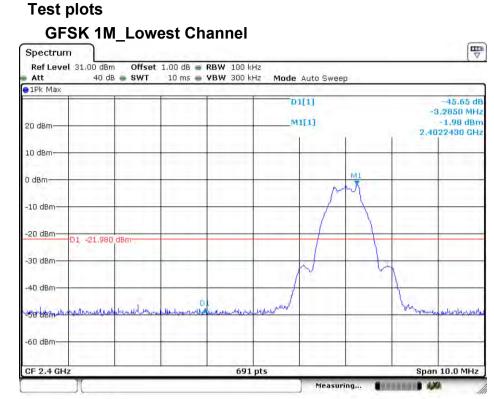
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4.7.1

4.7.1.1

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Date: 21.MAY.2020 02:47:30

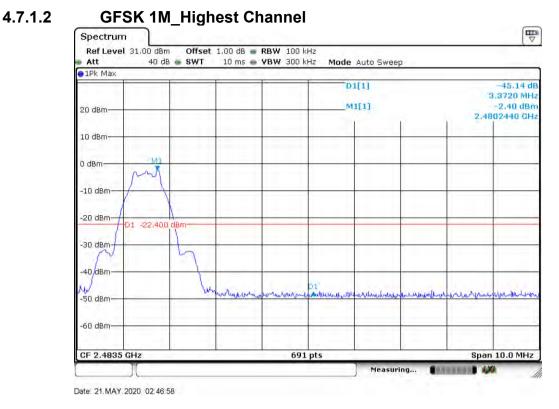


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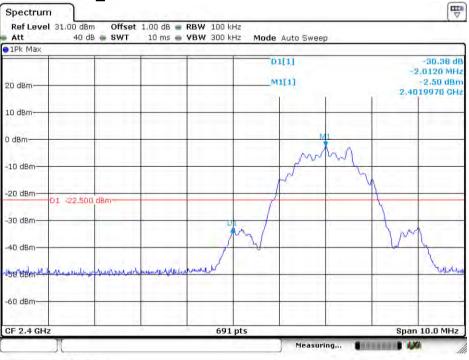
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4.7.1.3 GFSK 2M_Lowest Channel



Date: 21.MAY.2020 02:47:52



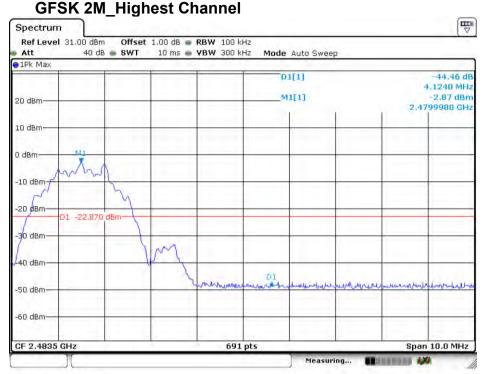
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4.7.1.4

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4.8 Spurious RF Conducted Emissions

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Test Requirement:	47 CFR Part 15C Section 15.247 (d)	
Test Method:	ANSI C63.10: 2013 Section 11.11	
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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.	
Test Mode:	Transmitting with GFSK modulation.	
Instruments Used:	Refer to section 5.10 for details.	
Test Results:	Pass	



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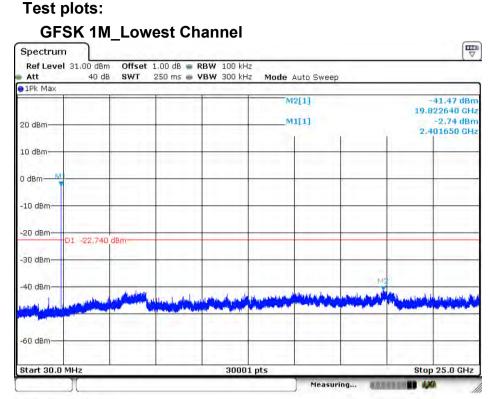
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4.8.1

4.8.1.1

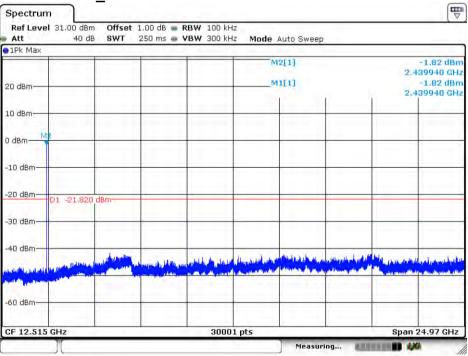
SGS-CSTC Standards Technical Services Co., Ltd.Shenzhen Branch

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Date: 21.MAY.2020 02:56:48

4.8.1.2 GFSK 1M_Middle Channel

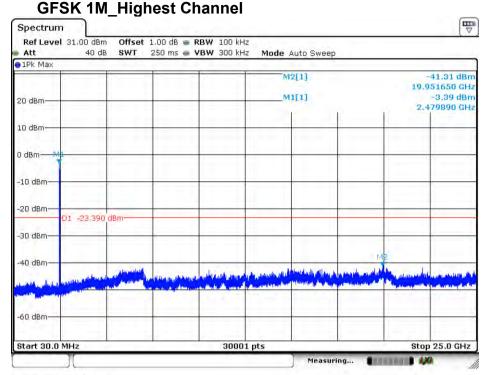


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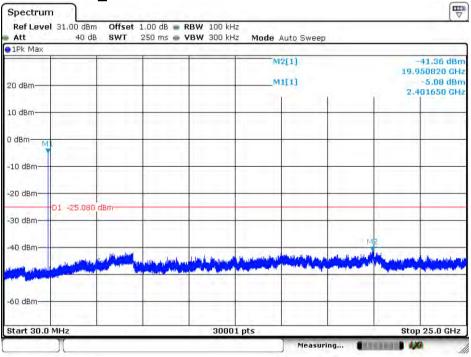
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4.8.1.3

4.8.1.4 GFSK 2M_Lowest Channel

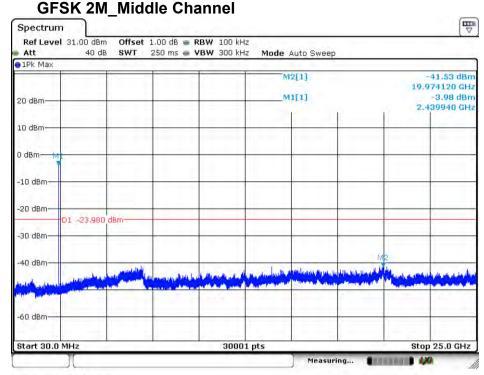


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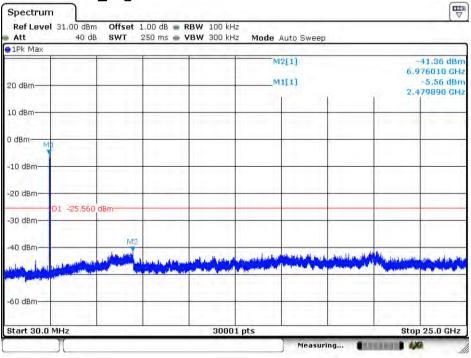
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Date: 21.MAY.2020 03:00:19

4.8.1.5

4.8.1.6 GFSK 2M_Highest Channel



Date: 21.MAY.2020 02:59:23



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Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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Test Requirement:	47 CFR Part 15C Sectio	n 15.209 and 15.2	205					
Test Method:	ANSI C63.10 :2013 Sec	tion 11.12						
Test Site:	Measurement Distance:	3m (Semi-Anecho	oic Chambe	r)				
	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
Dessiver Setur	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak			
Receiver Setup:	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
		Peak	1MHz	10Hz	Average			
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
	30MHz-88MHz	100	40.0	Quasi-peak	3			
Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3			
	216MHz-960MHz	200	46.0	Quasi-peak	3			
	960MHz-1GHz	500	54.0	Quasi-peak	3			
	Above 1GHz	500	54.0	Average	3			
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							

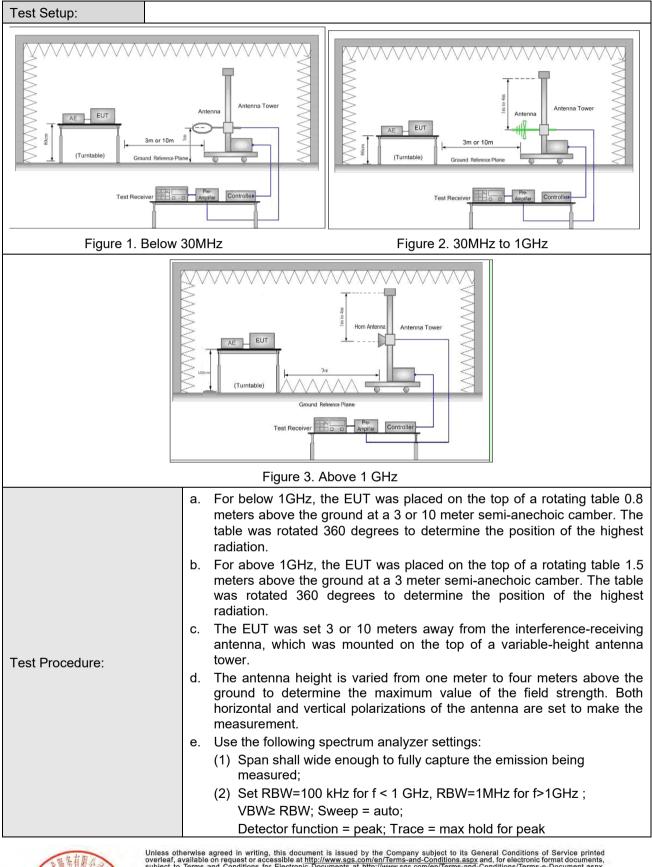
4.9 Radiated Spurious Emission

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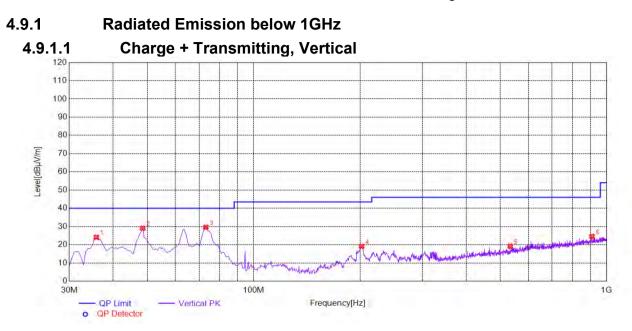
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	(3) For average measurement: use duty cycle correction factor method per 15.35(c).				
	Duty cycle = On time/100 milliseconds				
	On time = N 1 *L 1 +N 2 *L 2 ++N n-1 *LN n-1 +N n *L n				
	Where N 1 is number of type 1 pulses, L 1 is length of type 1 pulses, etc.				
	Average Emission Level = Peak Emission Level + 20*log(Duty cycle)				
	f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.				
	g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.				
	h. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10c margin would be re-tested one by one using peak, quasi-peak average method as specified and then reported in a data sheet.				
	i. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)				
	j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.				
	k. Repeat above procedures until all frequencies measured was complete.				
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.				
	Transmitting with GFSK modulation.				
	Pretest the EUT at Charge + Transmitting mode,				
Final Test Mode:	For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.				
Instruments Used:	Refer to section 5.10 for details.				
Test Results:	Pass				



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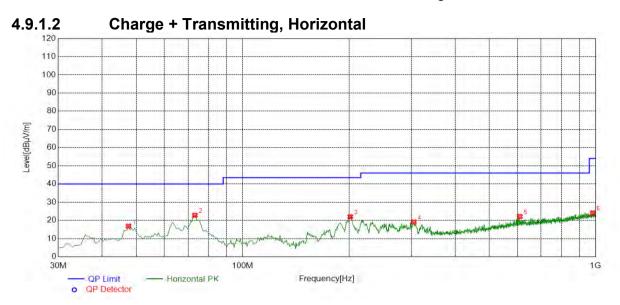
Suspected List

Suspe	ected List		_	_	_	-	_	
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8229	24.12	-32.50	40.00	15.88	222	164	Vertical
2	48.4392	29.05	-30.19	40.00	10.95	224	328	Vertical
3	73.1866	29.61	-34.71	40.00	10.39	282	292	Vertical
4	202.261	19.13	-30.77	43.50	24.37	252	314	Vertical
5	533.196	19.19	-21.86	46.00	26.81	257	164	Vertical
6	909.259	24.56	-15.09	46.00	21.44	279	176	Vertical



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Suspected List

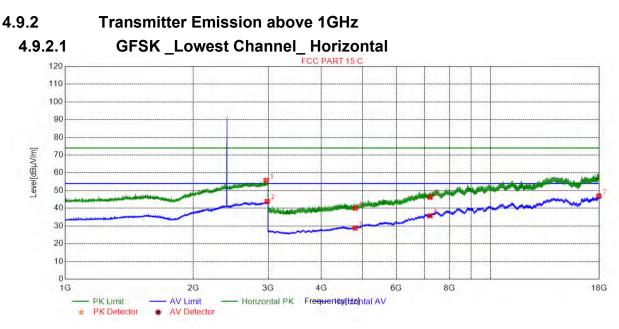
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Susp	Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.4687	16.79	-30.20	40.00	23.21	164	75	Horizontal
2	73.1866	22.79	-34.71	40.00	17.21	178	16	Horizontal
3	201.775	22.00	-30.78	43.50	21.50	232	236	Horizontal
4	305.132	19.14	-27.71	46.00	26.86	179	75	Horizontal
5	609.864	22.12	-19.94	46.00	23.88	194	82	Horizontal
6	981.075	24.05	-14.10	54.00	29.95	135	100	Horizontal



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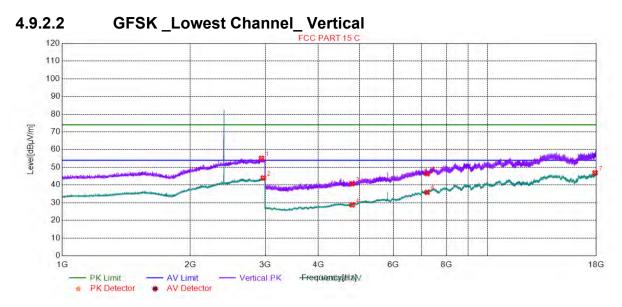
Suspected List

Susp	ected List			_	_	-	-	
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2967.49	55.74	9.60	74.00	18.26	133	315	Horizontal
2	2983.99	43.90	9.52	54.00	10.10	248	54	Horizontal
3	4804.00	28.89	-18.30	54.00	25.11	227	204	Horizontal
4	4804.00	40.05	-18.30	74.00	33.95	170	67	Horizontal
5	7206.00	46.23	-10.09	74.00	27.77	142	320	Horizontal
6	7206.00	35.79	-10.09	54.00	18.21	180	360	Horizontal
7	17959.8	46.86	0.71	54.00	7.14	197	360	Horizontal



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Suspected List

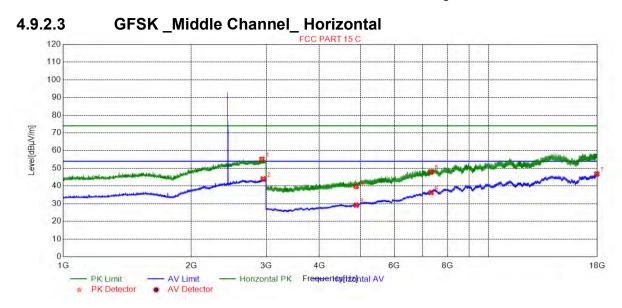
SG

Suspe	Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2940.98	55.12	9.58	74.00	18.88	284	333	Vertical
2	2969.99	43.97	9.59	54.00	10.03	268	73	Vertical
3	4804.00	40.71	-18.30	74.00	33.29	151	14	Vertical
4	4804.00	28.77	-18.30	54.00	25.23	251	123	Vertical
5	7206.00	46.36	-10.09	74.00	27.64	205	360	Vertical
6	7206.00	35.86	-10.09	54.00	18.14	275	360	Vertical
7	17876.7	46.87	0.38	54.00	7.13	233	322	Vertical



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Suspected List

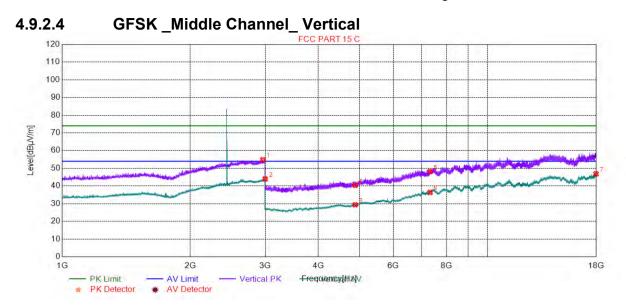
SG

Suspe	Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2931.48	55.20	9.48	74.00	18.80	232	274	Horizontal
2	2951.48	44.01	9.67	54.00	9.99	171	301	Horizontal
3	4882.00	29.20	-17.96	54.00	24.80	171	120	Horizontal
4	4882.00	39.74	-17.96	74.00	34.26	203	120	Horizontal
5	7323.00	47.96	-9.71	74.00	26.04	175	220	Horizontal
6	7323.00	36.30	-9.71	54.00	17.70	202	321	Horizontal
7	17946.6	46.77	0.70	54.00	7.23	121	69	Horizontal



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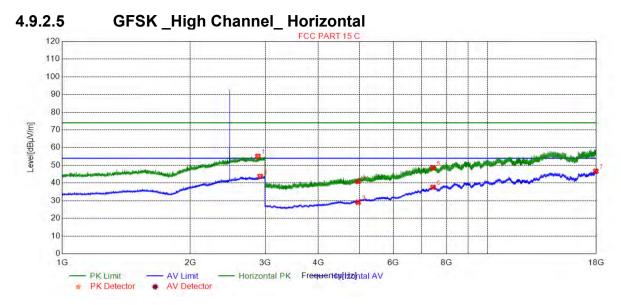
Suspected List

Suspe	Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2961.99	54.88	9.62	74.00	19.12	275	99	Vertical
2	2998.99	43.98	9.45	54.00	10.02	168	319	Vertical
3	4882.00	29.38	-17.96	54.00	24.62	259	39	Vertical
4	4882.00	40.36	-17.96	74.00	33.64	184	204	Vertical
5	7323.00	48.15	-9.71	74.00	25.85	297	18	Vertical
6	7323.00	36.38	-9.71	54.00	17.62	198	172	Vertical
7	17968.6	46.85	0.71	54.00	7.15	295	326	Vertical



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Suspected List

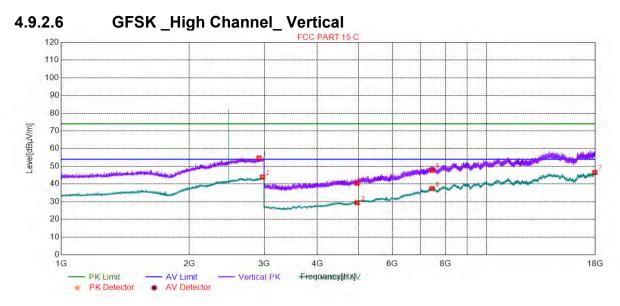
SG

Suspe	Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2883.47	55.14	9.17	74.00	18.86	219	275	Horizontal
2	2919.47	43.77	9.35	54.00	10.23	156	96	Horizontal
3	4960.00	29.11	-17.47	54.00	24.89	131	314	Horizontal
4	4960.00	40.85	-17.47	74.00	33.15	153	260	Horizontal
5	7440.00	48.57	-9.35	74.00	25.43	242	320	Horizontal
6	7440.00	37.60	-9.35	54.00	16.40	190	270	Horizontal
7	17954.3	46.64	0.71	54.00	7.36	126	18	Horizontal



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Suspected List

Suspe	Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2915.47	54.71	9.31	74.00	19.29	257	278	Vertical
2	2972.99	43.94	9.57	54.00	10.06	248	210	Vertical
3	4960.00	29.41	-17.47	54.00	24.59	268	117	Vertical
4	4960.00	40.39	-17.47	74.00	33.61	170	309	Vertical
5	7440.00	47.74	-9.35	74.00	26.26	195	219	Vertical
6	7440.00	37.43	-9.35	54.00	16.57	289	270	Vertical
7	17948.8	46.54	0.70	54.00	7.46	155	118	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



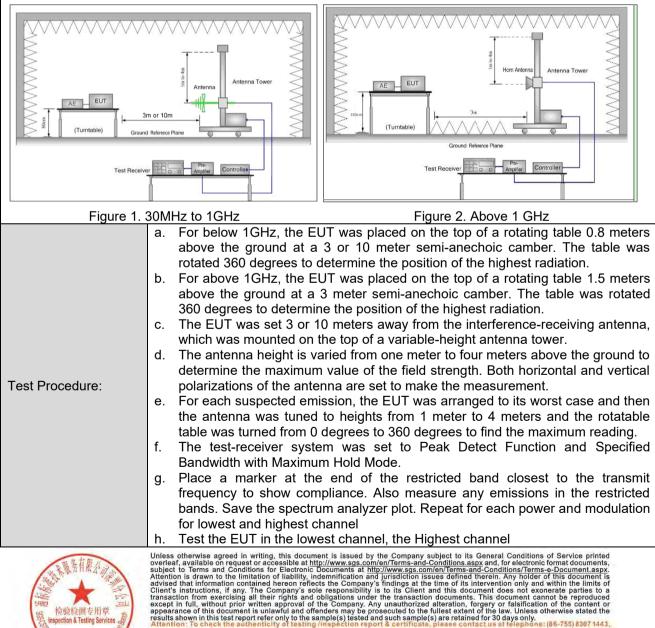
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Restricted bands around fundamental frequency 4.10

			-					
Test Requirement:	47 CFR Part 15C Sectio	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 Sec	tion 11.12						
Test Site:	Measurement Distance:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)						
	Frequency	Limit (dBuV/m @3m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak Value					
	88MHz-216MHz	43.5	Quasi-peak Value					
Limit:	216MHz-960MHz	46.0	Quasi-peak Value					
	960MHz-1GHz	54.0	Quasi-peak Value					
	Above 1GHz	54.0	Average Value					
	Above IGHZ	74.0	Peak Value					

Test Setup:



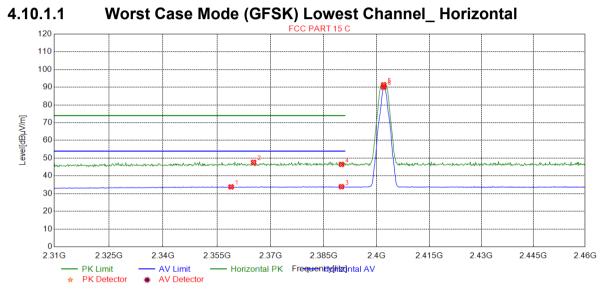




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	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

4.10.1 Test plots



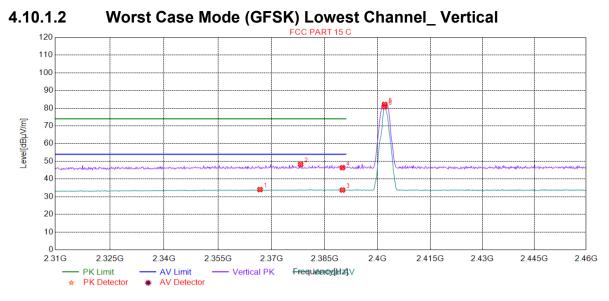
Suspected List

Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2358.94	33.80	7.80	54.00	20.20	191	0	Horizontal		
2	2365.25	47.64	7.79	74.00	26.36	101	0	Horizontal		
3	2390.00	33.90	7.77	54.00	20.10	119	45	Horizontal		
4	2390.00	46.50	7.77	74.00	27.50	233	177	Horizontal		
5	2402.00	91.39	7.77	0.00	-91.39	194	103	Horizontal		
6	2402.00	90.02	7.77	0.00	-90.02	101	107	Horizontal		



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Suspected List

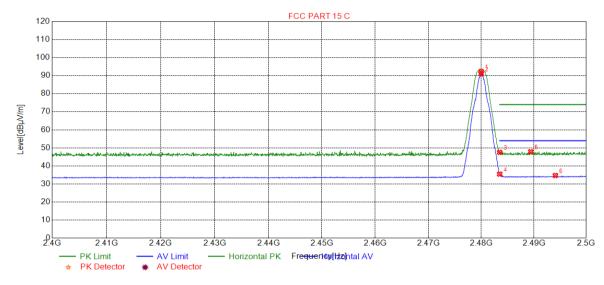
Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2366.75	34.00	7.79	54.00	20.00	199	176	Vertical	
2	2378.16	48.22	7.78	74.00	25.78	163	279	Vertical	
3	2390.00	33.75	7.77	54.00	20.25	239	41	Vertical	
4	2390.00	46.41	7.77	74.00	27.59	208	300	Vertical	
5	2402.00	82.14	7.77	0.00	-82.14	169	259	Vertical	
6	2402.00	80.81	7.77	0.00	-80.81	250	259	Vertical	



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4.10.1.3 Worst Case Mode (GFSK) Highest Channel_ Horizontal

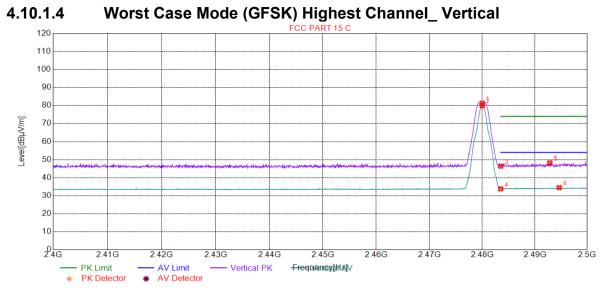
Suspected List

Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480.00	92.35	8.01	0.00	-92.35	245	73	Horizontal	
2	2480.00	91.00	8.01	0.00	-91.00	151	73	Horizontal	
3	2483.50	47.53	8.01	74.00	26.47	140	56	Horizontal	
4	2483.50	35.48	8.01	54.00	18.52	124	84	Horizontal	
5	2489.39	47.85	8.02	74.00	26.15	149	331	Horizontal	
6	2494.09	34.72	8.02	54.00	19.28	208	276	Horizontal	



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Suspected List

Suspe	Suspected List									
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2480.00	81.29	8.01	0.00	-81.29	183	260	Vertical		
2	2480.00	79.91	8.01	0.00	-79.91	214	254	Vertical		
3	2483.50	46.32	8.01	74.00	27.68	241	52	Vertical		
4	2483.50	33.77	8.01	54.00	20.23	205	112	Vertical		
5	2492.84	48.17	8.02	74.00	25.83	249	332	Vertical		
6	2494.64	34.45	8.02	54.00	19.55	259	349	Vertical		

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor All Modes have been tested, but only the worst case data displayed in this report.



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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:		
No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

Lab B:

No.	Item	Measurement Uncertainty		
1	Conduct emission test	± 3.0dB (150kHz to 30MHz)		
		± 4.8dB (Below 1GHz)		
2	Radiated Spurious emission test	± 4.8dB (1GHz to 6GHz)		
2		± 4.5dB (6GHz to 18GHz)		
		± 5.02dB (Above 18GHz)		



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6 Equipment List

RF conducted test									
			Inventory	Cal. date	Cal.Duedate				
Test Equipment	Manufacturer	Model No.	No.	(yyyy-mm- dd)	(yyyy-mm- dd)				
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15				
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2				
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11				
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A				
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14				
Temperature Chamber	GIANT FORCE	ICT-150-40- CP-AR	W027-03	2019/10/27	2020/10/27				
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14				

	CE Test System								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10				
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06				
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2019-07-16	2020-07-15				
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-11-28	2020-11-28				
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR				

RSE Test System								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10			
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01			
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06			
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12			
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12			
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12			
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR			
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR			
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR			



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Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-11-18	2020-11-17
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/50027.

The End



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