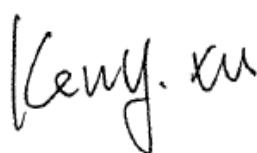


TEST REPORT

Application No.: SZCR2308002532AT
Applicant: Edifier International Limited
Address of Applicant: P.O. Box 6264 General Post Office Hong Kong
Manufacturer: Dongguan Edifier Esports Technology Co., Ltd
Address of Manufacturer: Room 2001, 20/F, D1 Building, Everbright We Valley, No. 15, Science and Technology 4th Road, Songshan Lake, Dongguan City, Guangdong Province, China
Factory: Dongguan Edifier Technology Co., Ltd.
Address of Factory: No.2 Gongyedong Road, Songshan Lake Sci&Tech Industry Park, Dongguan, Guangdong 523808, PR.China
Equipment Under Test (EUT):
EUT Name: TRI-MODE MECHANICAL KEYBOARD
Model No.: EDF703001
Trade Mark: EDIFIER,HECATE
FCC ID: Z9G-EDF214
Standard(s) : 47 CFR Part 15, Subpart C 15.249
Date of Receipt: 2023-08-07
Date of Test: 2023-08-10 to 2023-08-22
Date of Issue: 2023-08-29

Test Result:	Pass*
---------------------	--------------

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



Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Inspection Laboratory.

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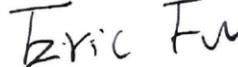
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230800253203

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-08-29		Original

Authorized for issue by:			
		Bill Chen/Project Engineer	
		Eric Fu/Reviewer	

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Field Strength of the Fundamental Signal (15.249(a))		ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass
Radiated Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
Radiated Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	Keyboard: Lithium Ion Battery: DC 3.7V 4000mAh 14.8Wh rechargeable battery which charged by Type-C port
Cable(s):	Type C cable:180cm unshielded
Frequency Range:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	79
Channel Spacing:	1MHz
Antenna Type:	On-board Antenna
Antenna Gain:	1.5dBi

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1443	REF. No. SEA05D11D

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
20dB Bandwidth	± 3%
Field Strength of the Fundamental Signal (15.249(a))	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Restricted Band Around Fundamental Frequency	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions Above 1GHz	± 4.6dB (1GHz-18GHz);± 4.8dB (18MHz-40GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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4.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

- **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 (Member No. 1937)**

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. Shenzhen EMC laboratory 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: CN1336**

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06

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Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19

Radiated Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06

Radiated Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06



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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.5dBi.

Antenna location: Refer to internal photos



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	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.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1005 mbar

7.1.2 Test Mode Description

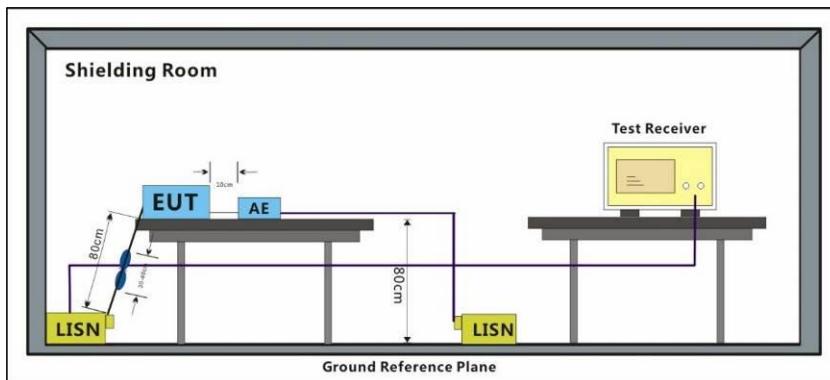
Pre-scan / Final test	Mode Code	Description
Final test	03	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 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 50ohm/50μH + 50hm 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 was bonded to the horizontal 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 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



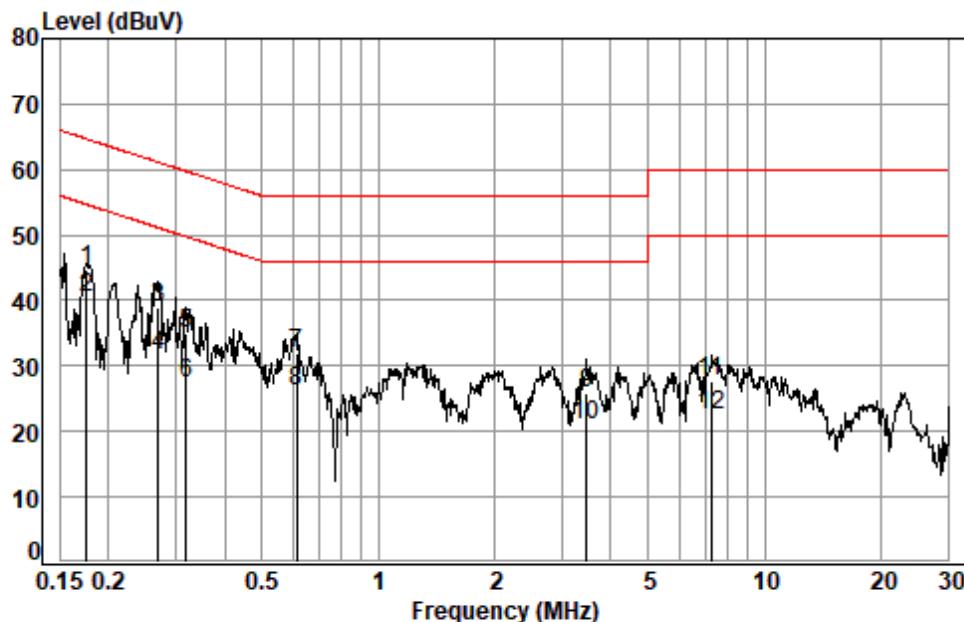
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Test Mode: 03; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 02532AT

Test mode: 03

Freq	Cable	LISN	Read	Limit		Over	Remark
	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 *	0.1758	0.02	9.62	35.16	44.80	64.68	-19.88 QP
2 *	0.1758	0.02	9.62	30.90	40.54	54.68	-14.14 Average
3	0.2701	0.03	9.62	29.20	38.85	61.12	-22.27 QP
4	0.2701	0.03	9.62	22.08	31.73	51.12	-19.39 Average
5	0.3183	0.03	9.62	25.19	34.84	59.75	-24.91 QP
6	0.3183	0.03	9.62	17.79	27.44	49.75	-22.31 Average
7	0.6140	0.04	9.62	22.30	31.96	56.00	-24.04 QP
8	0.6140	0.04	9.62	16.65	26.31	46.00	-19.69 Average
9	3.4722	0.08	9.66	16.01	25.75	56.00	-30.25 QP
10	3.4722	0.08	9.66	11.40	21.14	46.00	-24.86 Average
11	7.2903	0.13	9.71	17.72	27.56	60.00	-32.44 QP
12	7.2903	0.13	9.71	12.59	22.43	50.00	-27.57 Average

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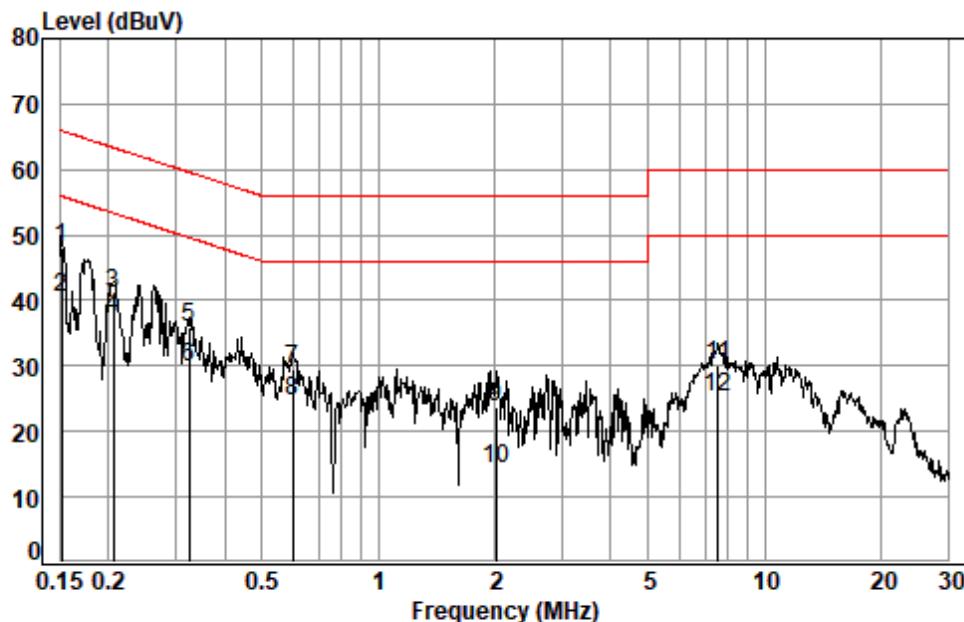
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Test Mode: 03; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 02532AT

Test mode: 03

Freq	Cable	LISN	Read	Limit		Over	Remark
	Freq	Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 *	0.1516	0.02	9.62	38.43	48.07	65.91	-17.84 QP
2 *	0.1516	0.02	9.62	30.73	40.37	55.91	-15.54 Average
3	0.2061	0.02	9.62	31.55	41.19	63.36	-22.17 QP
4	0.2061	0.02	9.62	27.77	37.41	53.36	-15.95 Average
5	0.3234	0.03	9.62	26.34	35.99	59.62	-23.63 QP
6	0.3234	0.03	9.62	20.19	29.84	49.62	-19.78 Average
7	0.6011	0.04	9.62	19.93	29.59	56.00	-26.41 QP
8	0.6011	0.04	9.62	14.91	24.57	46.00	-21.43 Average
9	2.0225	0.07	9.64	14.01	23.72	56.00	-32.28 QP
10	2.0225	0.07	9.64	4.71	14.42	46.00	-31.58 Average
11	7.5658	0.13	9.74	20.15	30.02	60.00	-29.98 QP
12	7.5658	0.13	9.74	15.46	25.33	50.00	-24.67 Average

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7.2 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215

Test Method: ANSI C63.10 (2013) Section 6.9

7.2.1 E.U.T. Operation

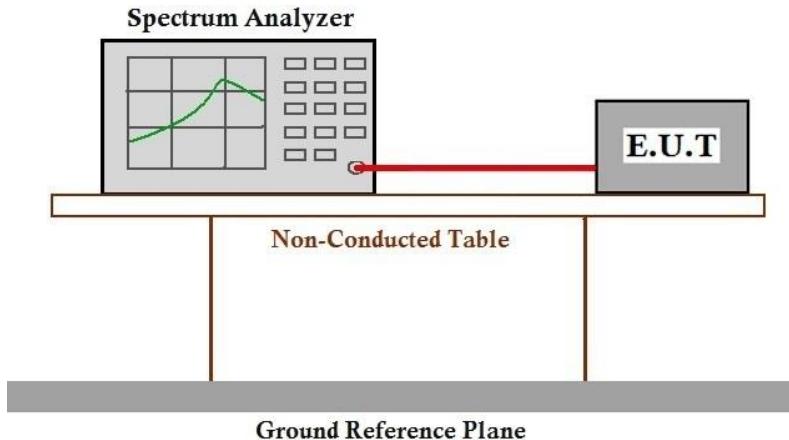
Operating Environment:

Temperature: 25.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1005 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Test channel	99% bandwidth (MHz)	Results
Lowest	1.0408	Pass
Middle	1.0408	Pass
Highest	1.0412	Pass

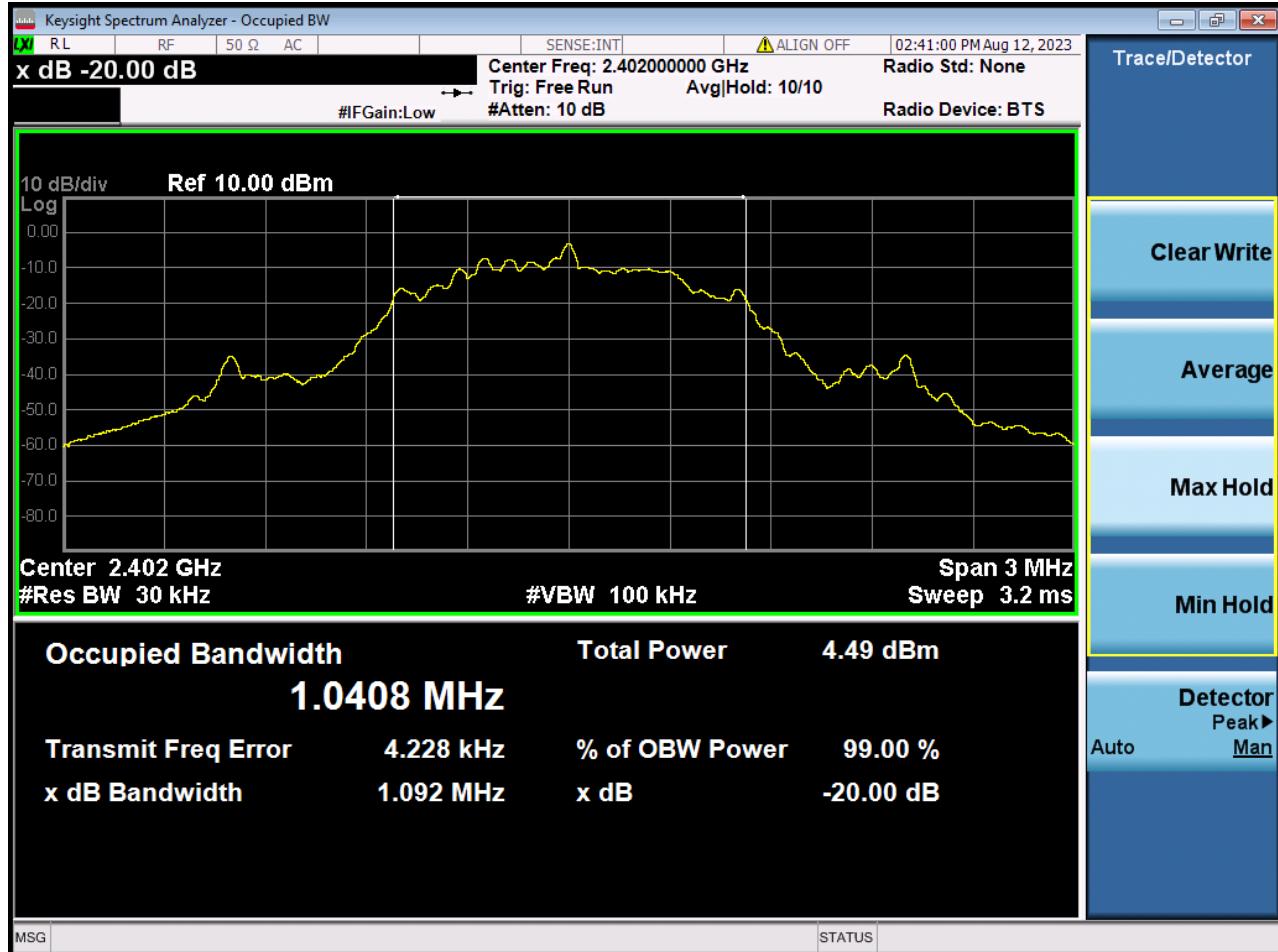
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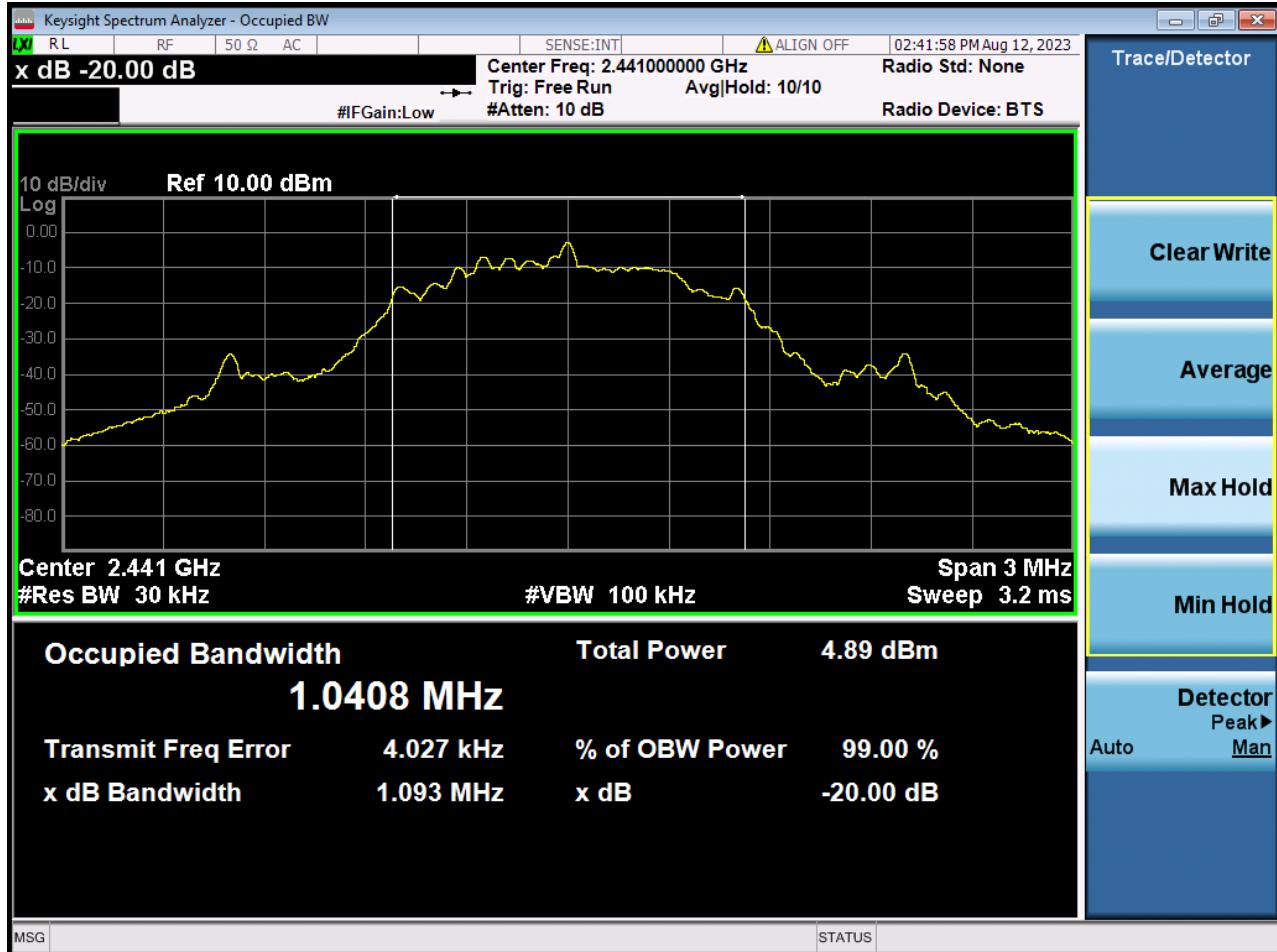


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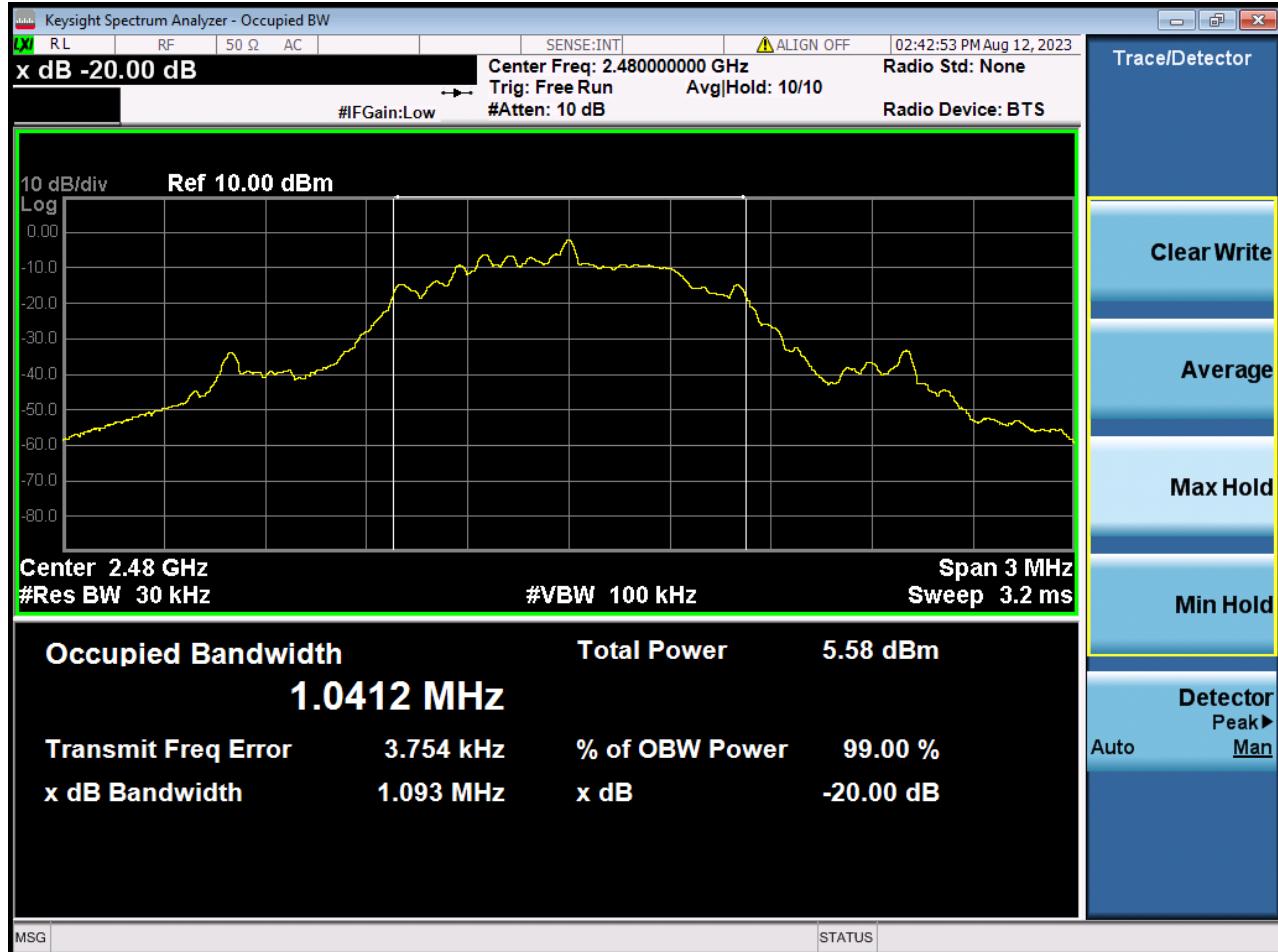


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7.3 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)

Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz 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.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.7 °C Humidity: 55.3 % RH Atmospheric Pressure: 1005 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.

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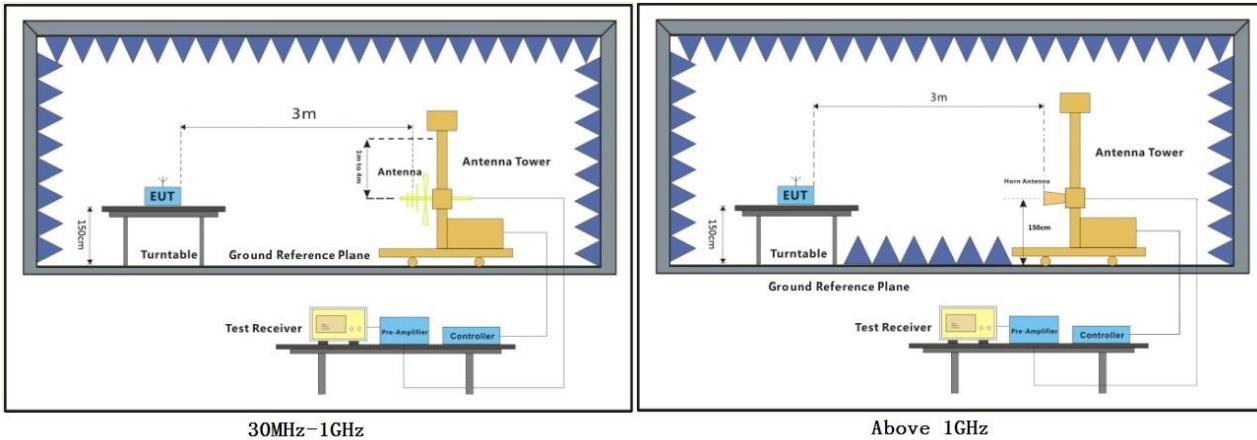
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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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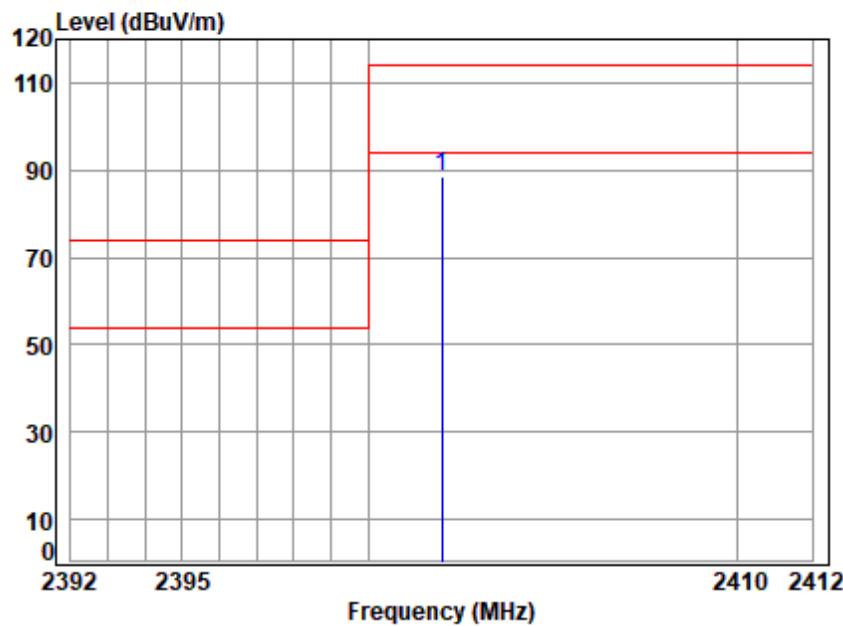
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02532AT/02534AT
Mode : 2402 Field strength
: 2.4G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 2402.000	5.09	28.81	35.64	90.13	88.39	114.00	-25.61 peak



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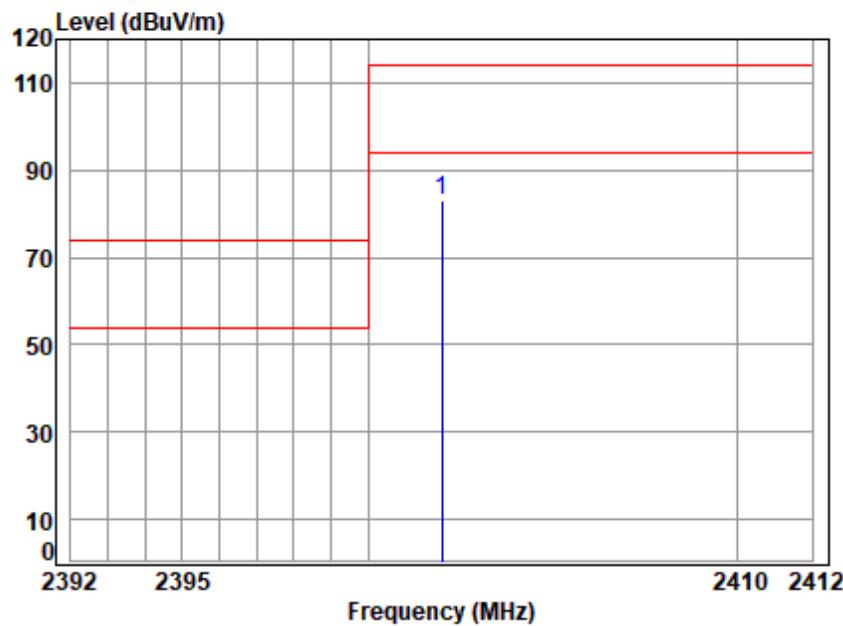
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02532AT/02534AT
Mode : 2402 Field strength
: 2.4G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 2402.000	5.09	28.81	35.64	84.94	83.20	114.00	-30.80 peak



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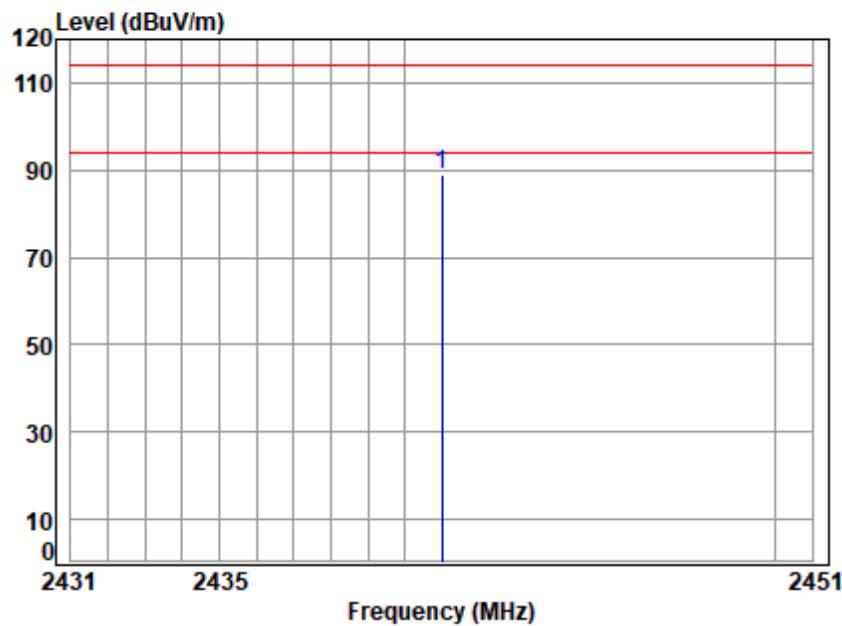
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02532AT/02534AT
Mode : 2441 Field strength
: 2.4G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 2441.000	5.12	29.05	35.62	90.23	88.78	114.00	-25.22 peak



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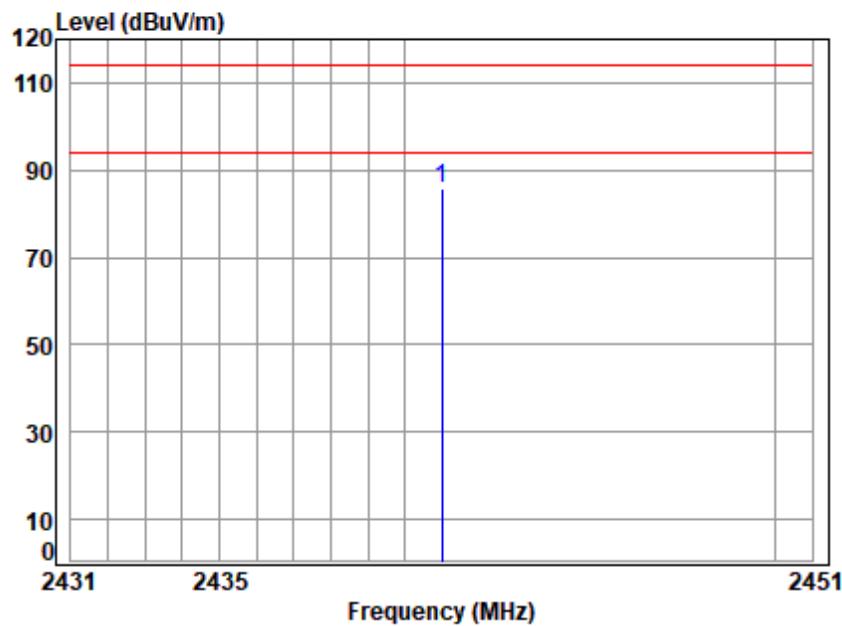
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 02532AT/02534AT
Mode : 2441 Field strength
: 2.4G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 2441.000	5.12	29.05	35.62	87.42	85.97	114.00	-28.03 peak



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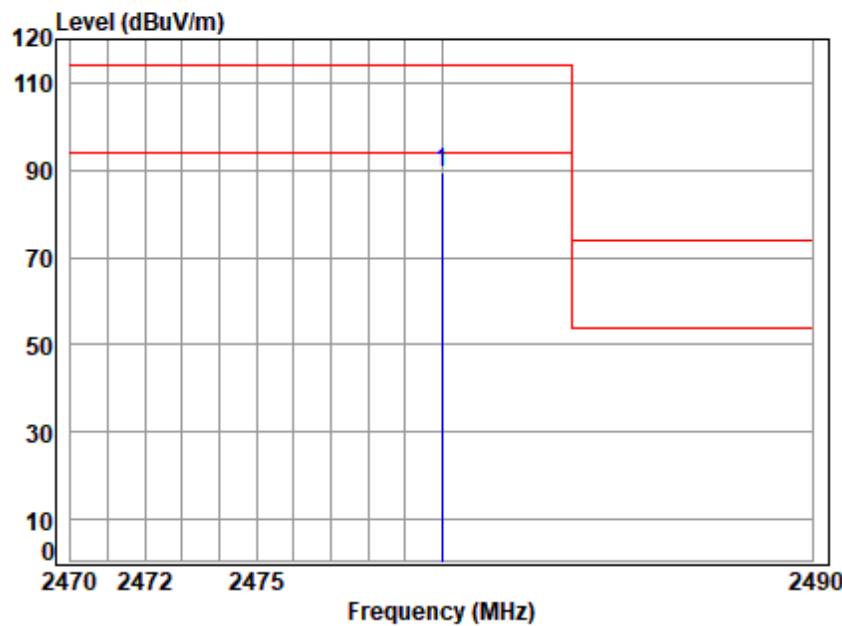
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02532AT/02534AT
Mode : 2480 Field strength
: 2.4G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 2480.000	5.16	29.28	35.61	90.64	89.47	114.00	-24.53 peak



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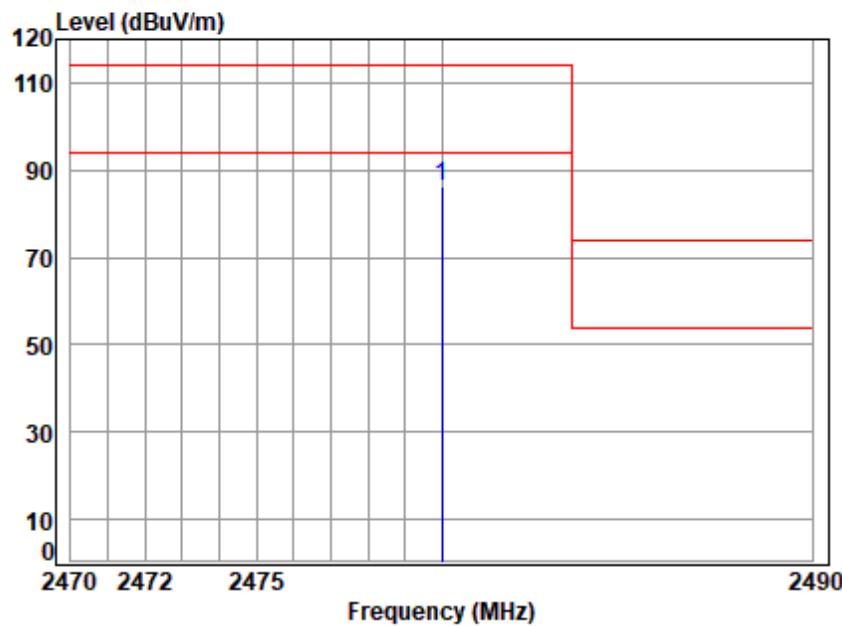
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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02532AT/02534AT
Mode : 2480 Field strength
: 2.4G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 2480.000	5.16	29.28	35.61	87.21	86.04	114.00	-27.96 peak



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7.4 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C Humidity: 54.3 % RH Atmospheric Pressure: 1005 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.
Pre-scan	03	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

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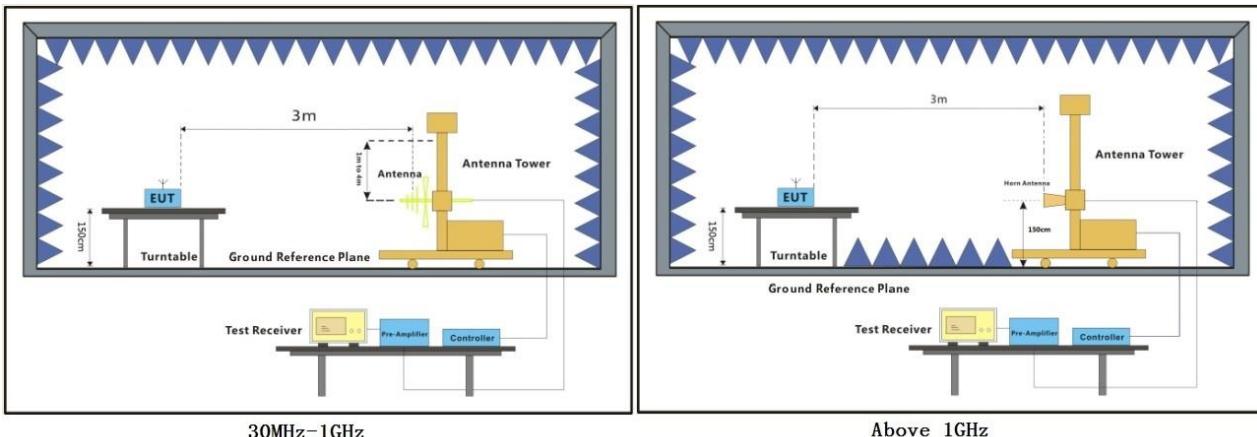
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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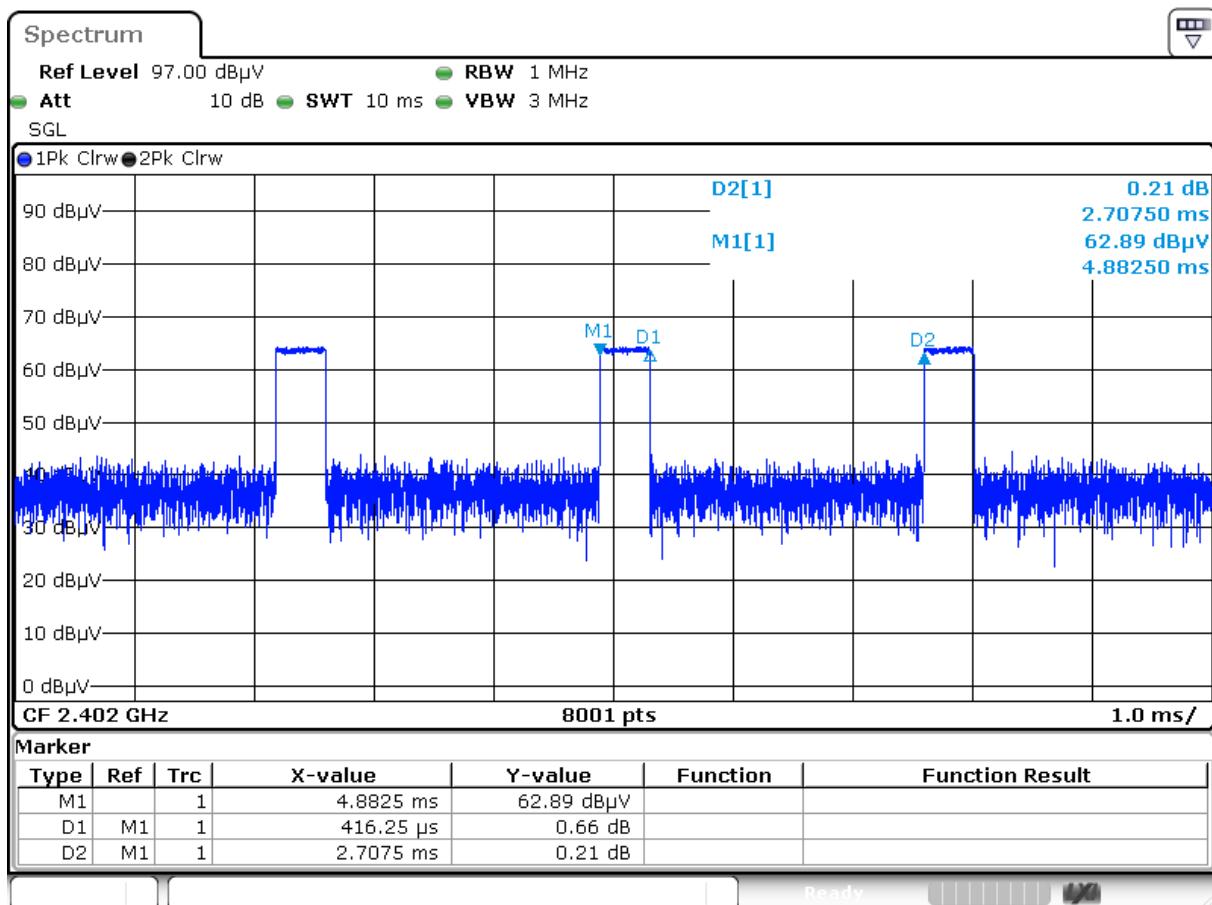
Report No.: SZCR230800253203

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Average value:

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =0.41625ms
	T period =2.7075ms
	PDCF value= -16.26dB

Duty cycle test plots:



Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



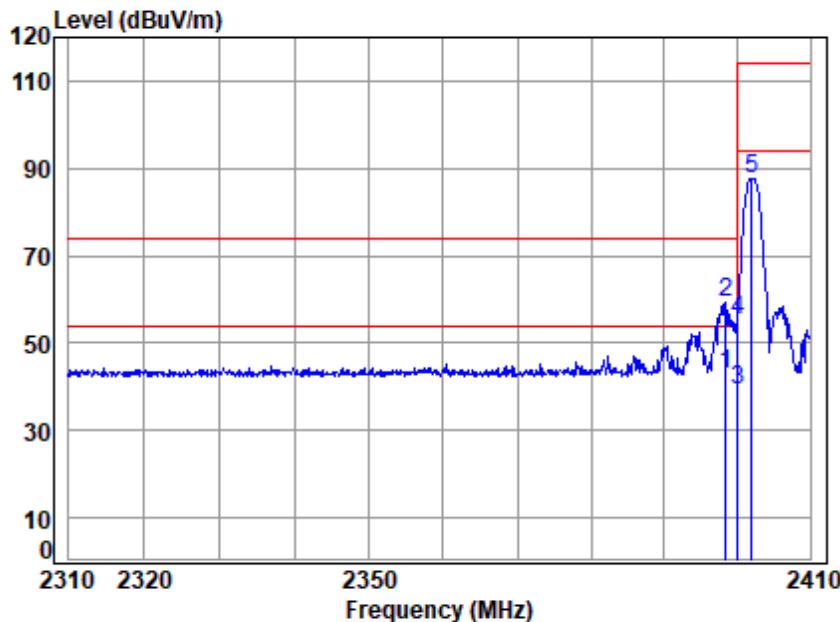
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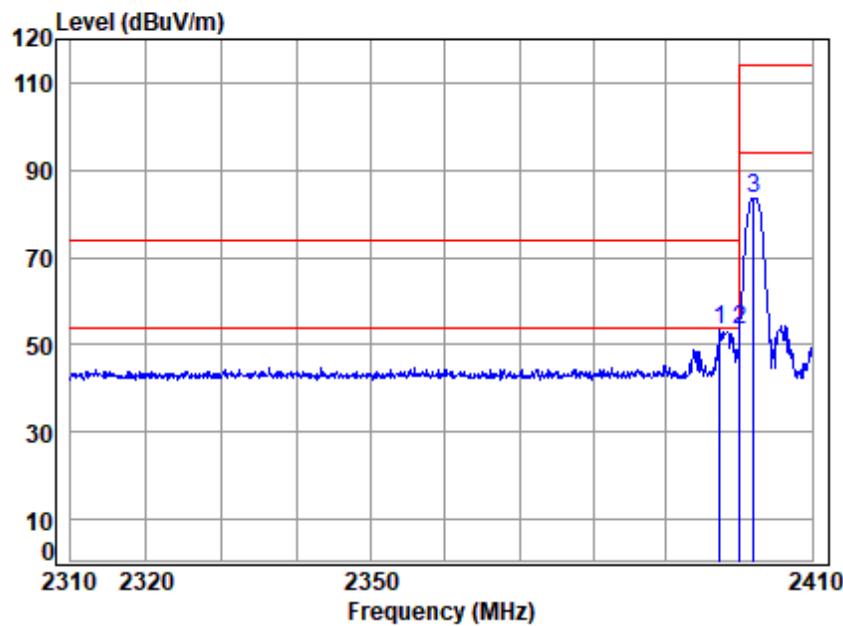
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02532AT/02534AT
 Mode : 2402 Band edge
 Note : 2.4G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q 2398.385	5.08	28.79	35.64	44.65	42.88	54.00	-11.12 Average
2 q 2398.385	5.08	28.79	35.64	60.91	59.14	74.00	-14.86 Peak
3 2400.000	5.08	28.80	35.64	40.83	39.07	54.00	-14.93 Average
4 2400.000	5.08	28.80	35.64	57.09	55.33	74.00	-18.67 Peak
5 2402.000	5.09	28.81	35.64	89.49	87.75	114.00	-26.25 peak

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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 02532AT/02534AT
Mode : 2402 Band edge
Note : 2.4G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark	
				Level				
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 2397.369	5.08	28.79	35.64	55.06	53.29	74.00	-20.71	Peak
2 q 2400.000	5.08	28.80	35.64	55.17	53.41	74.00	-20.59	Peak
3 2402.000	5.09	28.81	35.64	85.40	83.66	114.00	-30.34	peak

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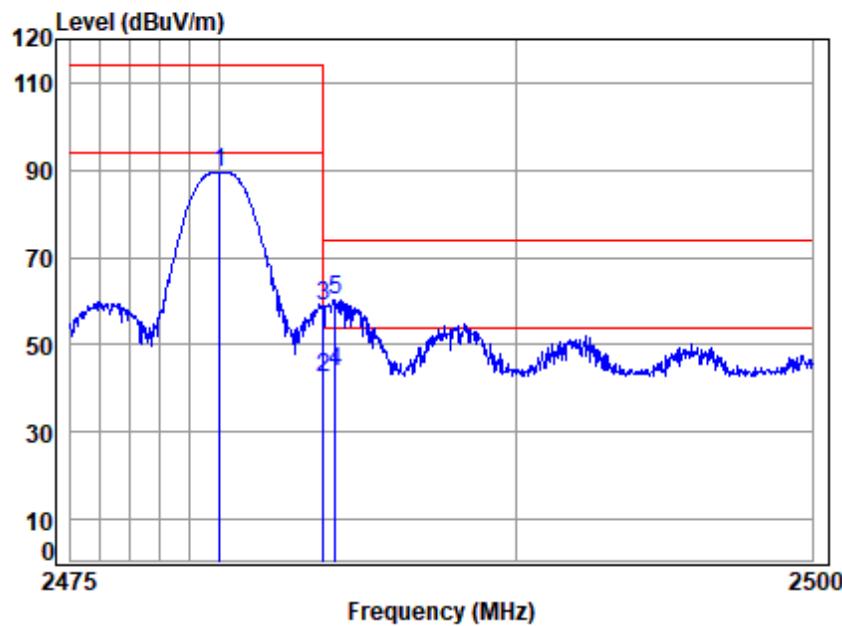
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02532AT/02534AT
Mode : 2480 Band edge
Note : 2.4G

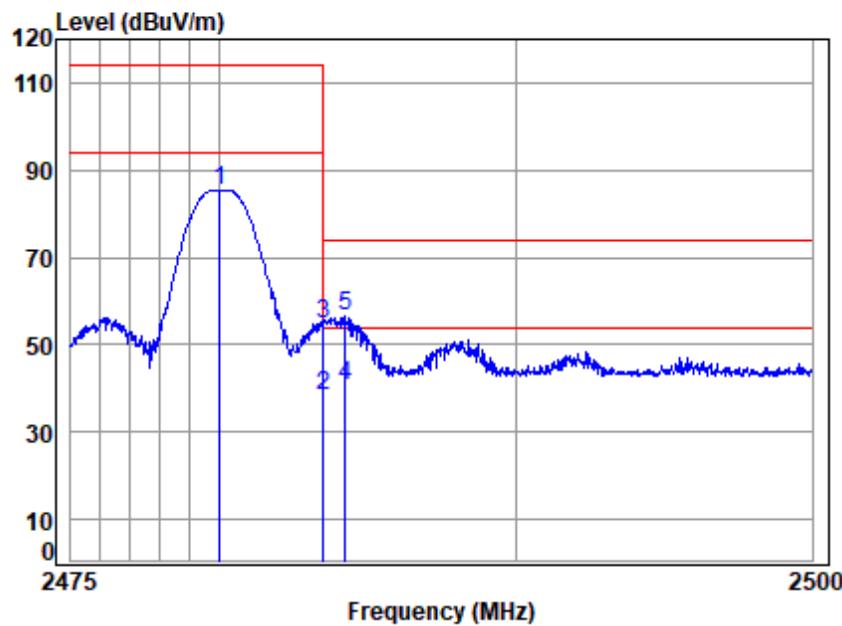
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
							dB	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2480.000	5.16	29.28	35.61	90.61	89.44	114.00	-24.56	peak
2 2483.500	5.16	29.30	35.61	43.79	42.64	54.00	-11.36	Average
3 2483.500	5.16	29.30	35.61	60.05	58.90	74.00	-15.10	peak
4 q 2483.896	5.16	29.30	35.61	45.08	43.93	54.00	-10.07	Average
5 q 2483.896	5.16	29.30	35.61	61.33	60.18	74.00	-13.82	peak

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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 02532AT/02534AT
 Mode : 2480 Band edge
 Note : 2.4G

	Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2480.000	5.16	29.28	35.61	86.67	85.50	114.00	-28.50 peak
2	2483.500	5.16	29.30	35.61	39.69	38.54	54.00	-15.46 Average
3	2483.500	5.16	29.30	35.61	55.95	54.80	74.00	-19.20 peak
4 q	2484.221	5.16	29.31	35.61	41.56	40.42	54.00	-13.58 Average
5 q	2484.221	5.16	29.31	35.61	57.82	56.68	74.00	-17.32 peak

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7.5 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(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
960-1000	500	3

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 47.5 % RH Atmospheric Pressure: 1005 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	02	TX mode_Keep the EUT in transmitting with modulation mode.
Final test	03	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

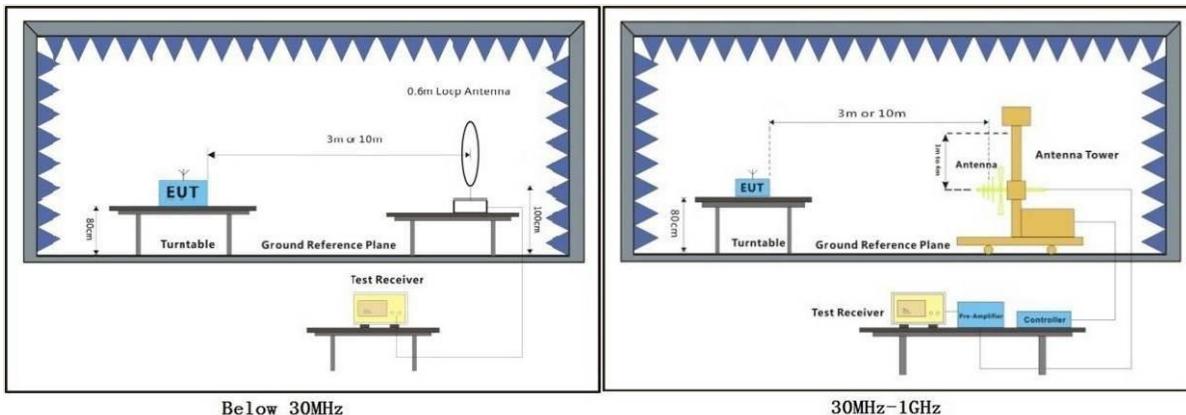
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7.5.3 Test Setup Diagram**7.5.4 Measurement Procedure and Data**

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. 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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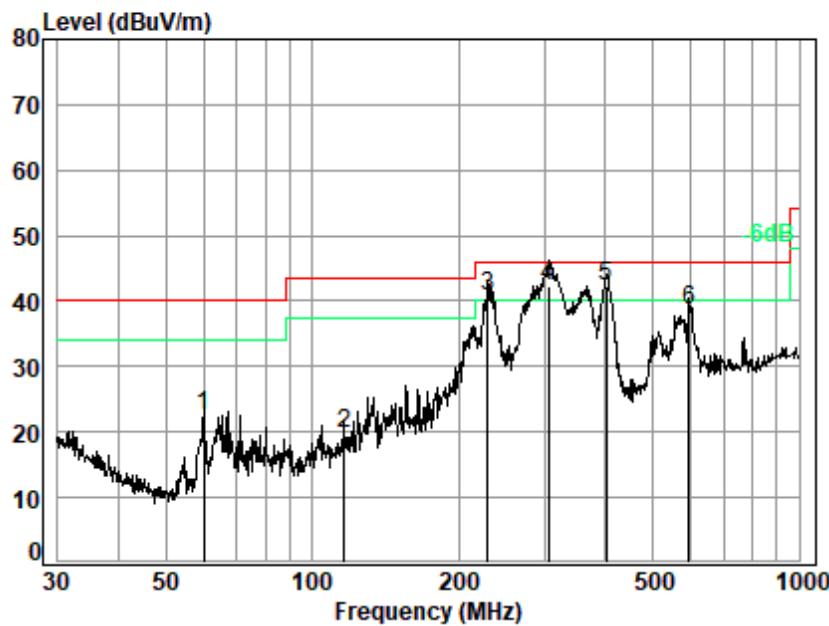
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Test Mode: 03; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 02532AT
Test Mode: 03

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					MHz	dB/m	dB	dB
1	59.86	11.25	0.85	27.13	37.50	22.47	40.00	-17.53 QP
2	116.13	11.99	1.23	26.94	33.43	19.71	43.50	-23.79 QP
3	229.29	16.86	1.82	26.48	48.68	40.88	46.00	-5.12 QP
4 q	305.68	18.97	2.14	26.22	47.29	42.18	46.00	-3.82 QP
5	401.84	21.54	2.49	26.51	44.64	42.16	46.00	-3.84 QP
6	593.05	24.94	3.10	27.08	37.62	38.58	46.00	-7.42 QP

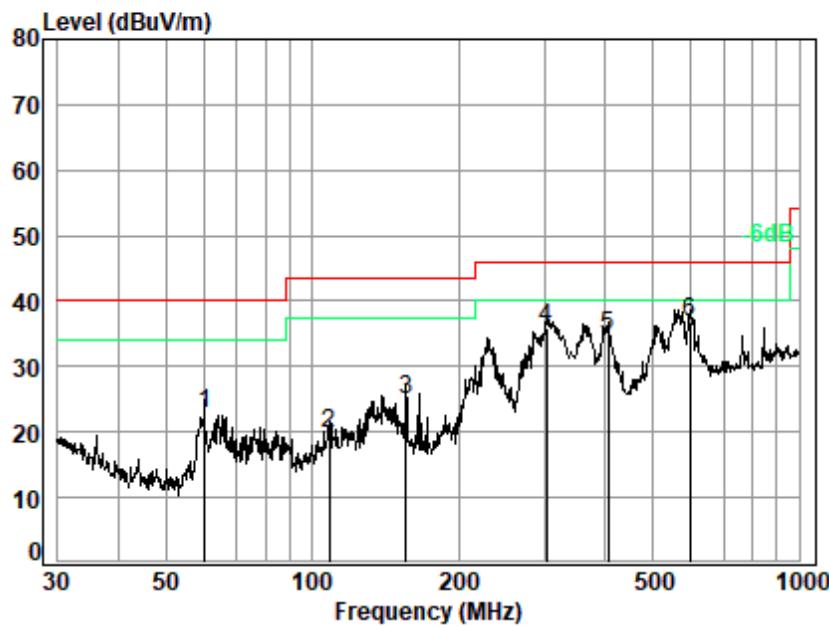
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Test Mode: 03; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 02532AT
Test Mode: 03

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					MHz	dB/m	dB	dB
1	60.07	11.22	0.85	27.13	38.02	22.96	40.00	-17.04 QP
2	108.27	12.69	1.19	26.97	32.82	19.73	43.50	-23.77 QP
3	155.91	13.66	1.45	26.78	36.65	24.98	43.50	-18.52 QP
4	302.48	18.86	2.13	26.21	40.97	35.75	46.00	-10.25 QP
5	406.09	21.38	2.50	26.52	37.30	34.66	46.00	-11.34 QP
6 q	597.22	25.17	3.11	27.09	35.56	36.75	46.00	-9.25 QP

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7.6 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.6.1 E.U.T. Operation

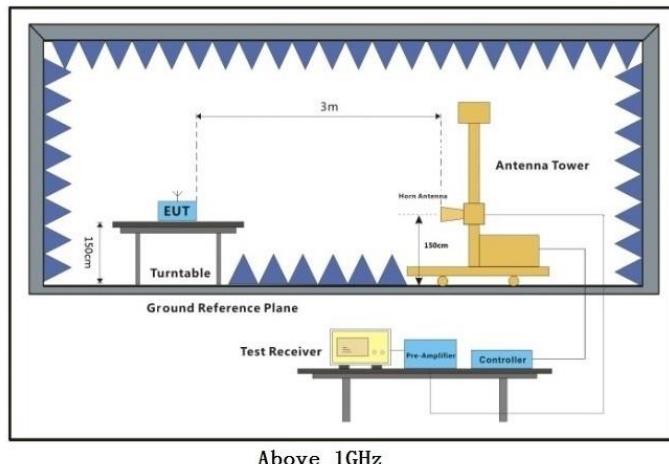
Operating Environment:

Temperature: 22.1 °C Humidity: 54.1 % RH Atmospheric Pressure: 1005 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in transmitting with modulation mode.
Pre-scan	03	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.6.3 Test Setup Diagram



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7.6.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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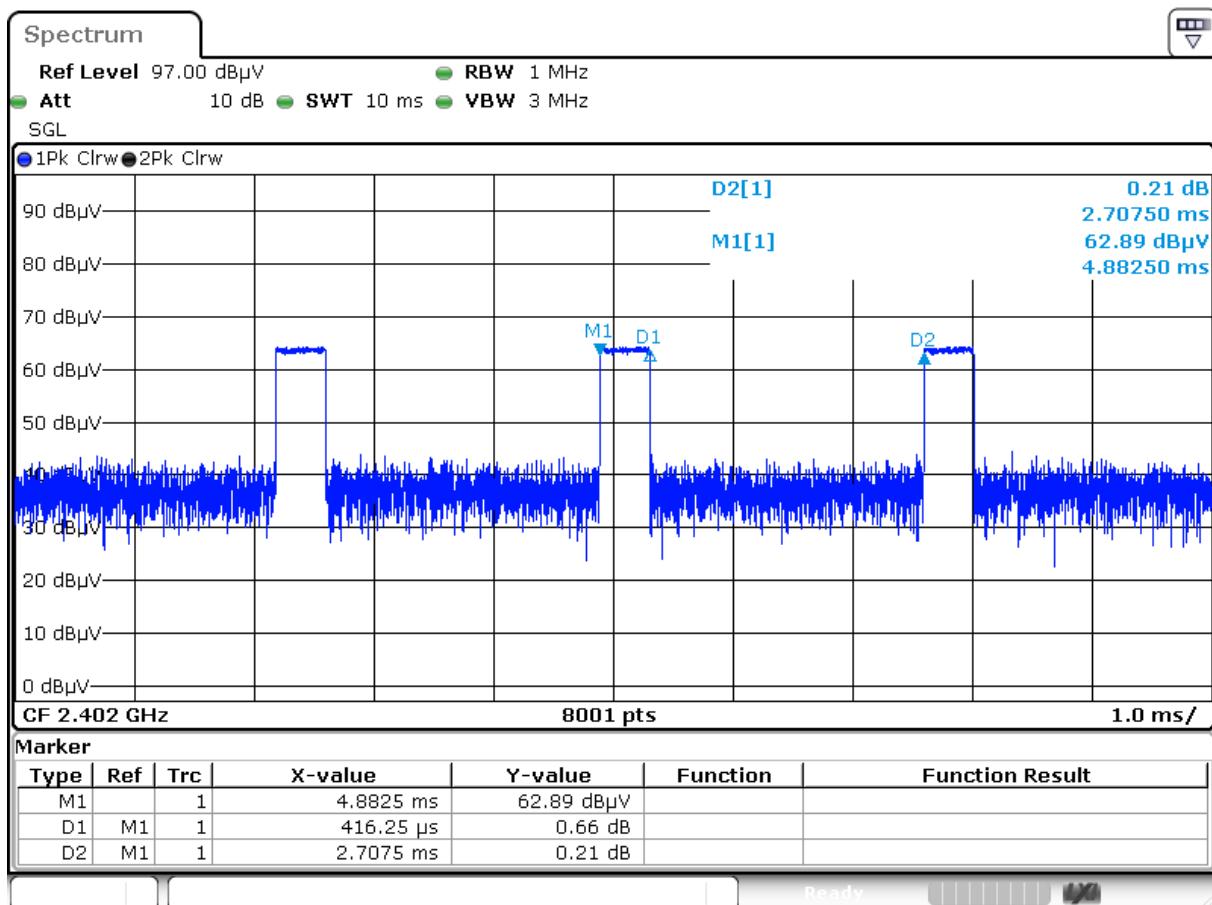
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Average value:

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =0.41625ms
	T period =2.7075ms
	PDCF value= -16.26dB

Duty cycle test plots:



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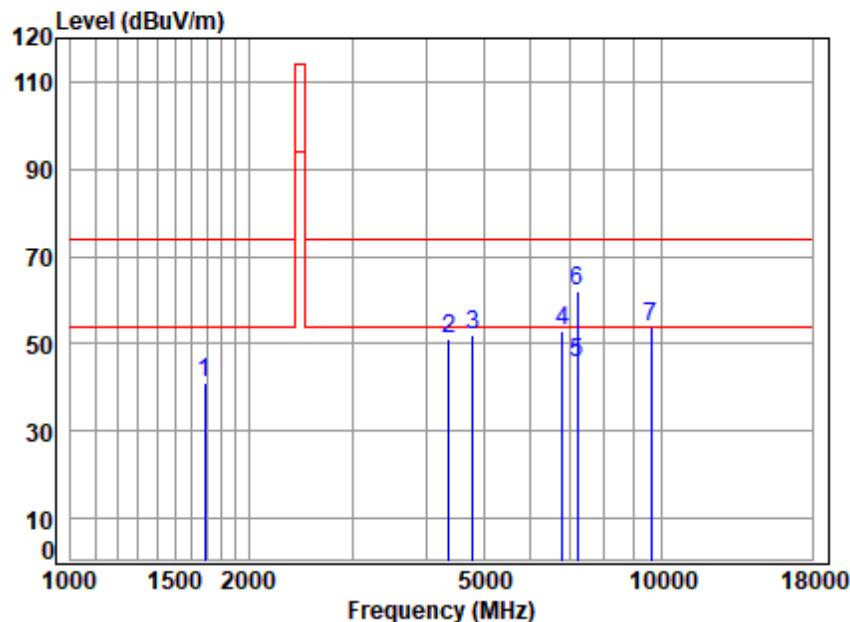
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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



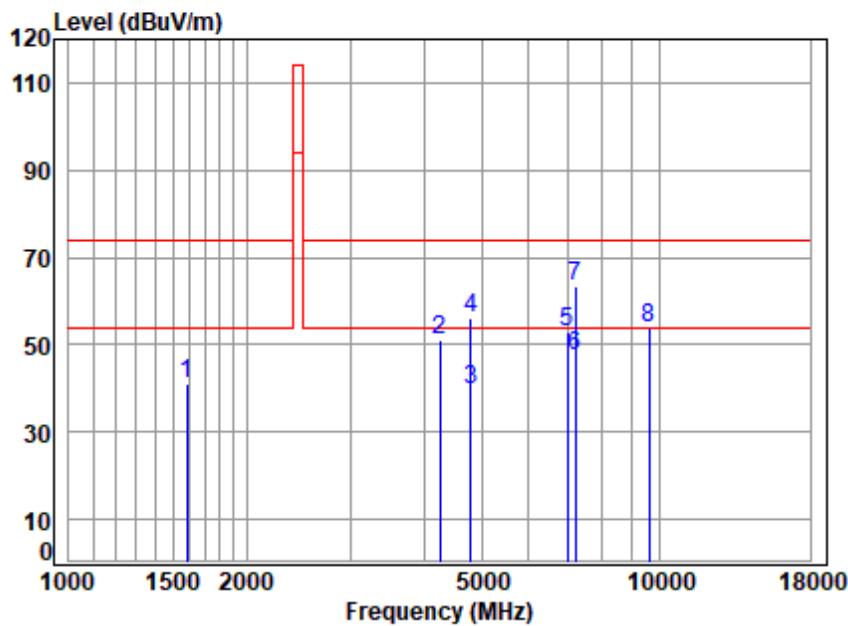
Site : chamber
Condition: 3m HORIZONTAL
Job No : 02532AT/02534AT
Mode : 2402 TX RSE
: 2.4G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Limit	Remark
				dB	dBuV			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1687.347	4.31	26.77	36.43	46.50	41.15	74.00	-32.85	peak
2 4367.058	7.04	33.57	34.59	44.99	51.01	74.00	-22.99	peak
3 4804.000	7.31	33.82	34.86	45.67	51.94	74.00	-22.06	peak
4 6795.879	8.78	35.50	35.74	44.43	52.97	74.00	-21.03	peak
5 q 7206.000	9.18	35.80	35.95	36.59	45.62	54.00	-8.38	Average
6 q 7206.000	9.18	35.80	35.95	52.85	61.88	74.00	-12.12	peak
7 9608.000	12.36	37.10	35.55	39.98	53.89	74.00	-20.11	peak

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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



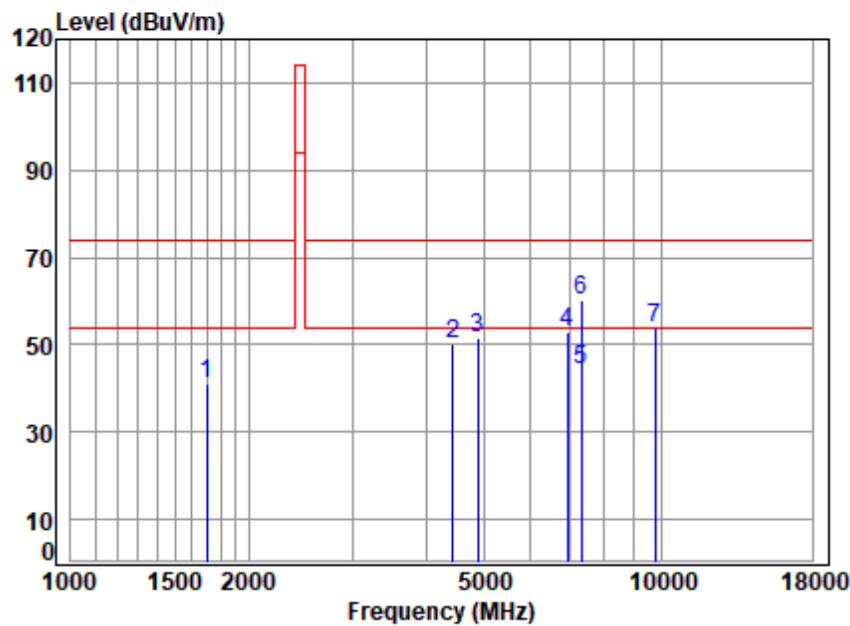
Site : chamber
Condition: 3m VERTICAL
Job No : 02532AT/02534AT
Mode : 2402 TX RSE
: 2.4G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	
								dB	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	1587.975	4.18	26.36	36.66	47.18	41.06	74.00	-32.94	peak
2	4254.921	6.96	33.60	34.51	44.90	50.95	74.00	-23.05	peak
3	4804.000	7.31	33.82	34.86	33.57	39.84	54.00	-14.16	Average
4	4804.000	7.31	33.82	34.86	49.83	56.10	74.00	-17.90	peak
5	6995.172	8.92	35.79	35.91	44.03	52.83	74.00	-21.17	peak
6 q	7206.000	9.18	35.80	35.95	38.23	47.26	54.00	-6.74	Average
7 q	7206.000	9.18	35.80	35.95	54.49	63.52	74.00	-10.48	peak
8	9608.000	12.36	37.10	35.55	39.73	53.64	74.00	-20.36	peak

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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 02532AT/02534AT
Mode : 2441 TX RSE
: 2.4G

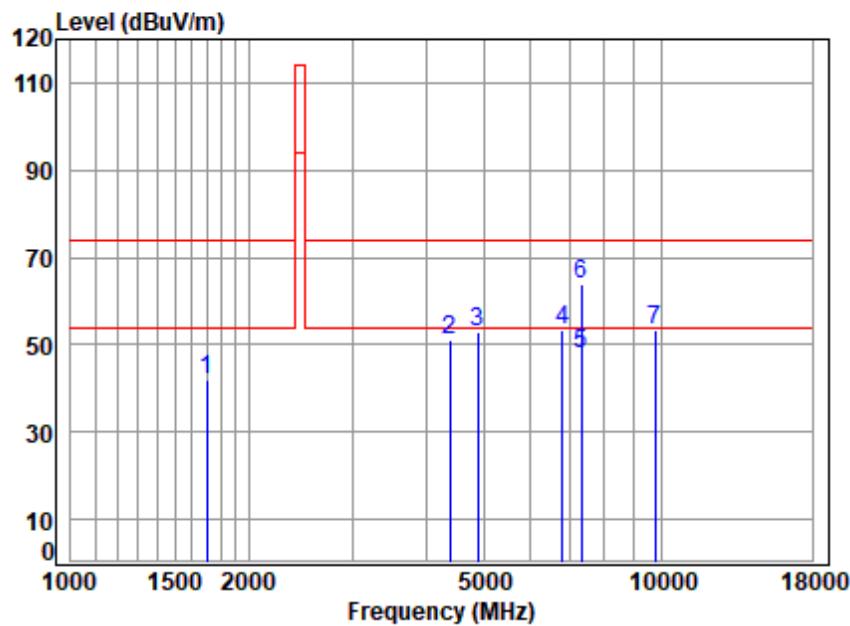
Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								dB	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1702.042	4.33	26.80	36.40	46.48	41.21	74.00	-32.79	peak	
2 4443.453	7.09	33.50	34.64	44.46	50.41	74.00	-23.59	peak	
3 4882.000	7.36	34.06	34.91	44.93	51.44	74.00	-22.56	peak	
4 6934.778	8.87	35.67	35.86	44.12	52.80	74.00	-21.20	peak	
5 q 7323.000	9.32	35.90	35.97	34.91	44.16	54.00	-9.84	Average	
6 q 7323.000	9.32	35.90	35.97	51.17	60.42	74.00	-13.58	peak	
7 9764.000	12.47	37.20	35.56	39.89	54.00	74.00	-20.00	peak	

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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



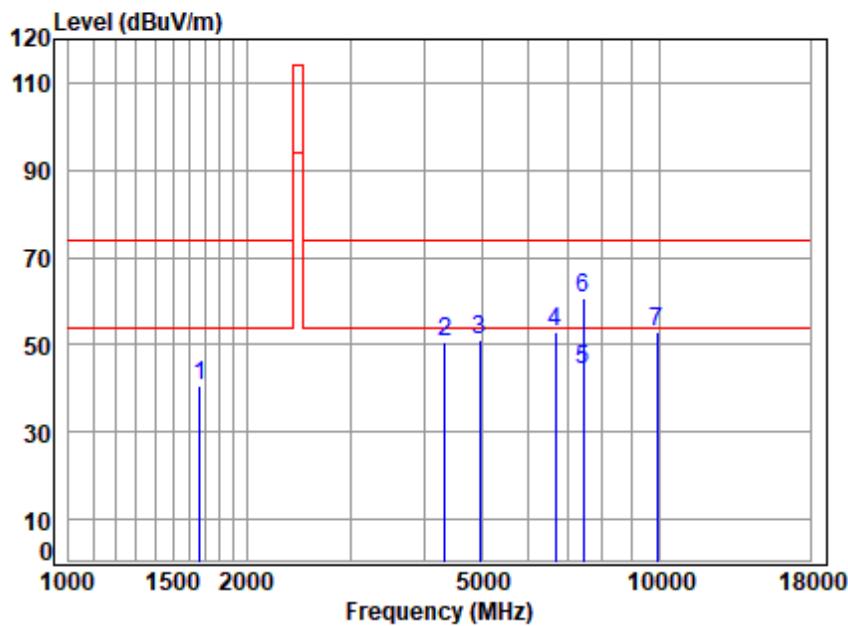
Site : chamber
 Condition: 3m VERTICAL
 Job No : 02532AT/02534AT
 Mode : 2441 TX RSE
 : 2.4G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB
1	1697.129	4.33	26.79	36.41	47.34	42.05	74.00	-31.95	peak
2	4379.699	7.04	33.54	34.59	45.08	51.07	74.00	-22.93	peak
3	4882.000	7.36	34.06	34.91	46.42	52.93	74.00	-21.07	peak
4	6795.879	8.78	35.50	35.74	44.81	53.35	74.00	-20.65	peak
5 q	7323.000	9.32	35.90	35.97	38.57	47.82	54.00	-6.18	Average
6 q	7323.000	9.32	35.90	35.97	54.83	64.08	74.00	-9.92	peak
7	9764.000	12.47	37.20	35.56	39.17	53.28	74.00	-20.72	peak

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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



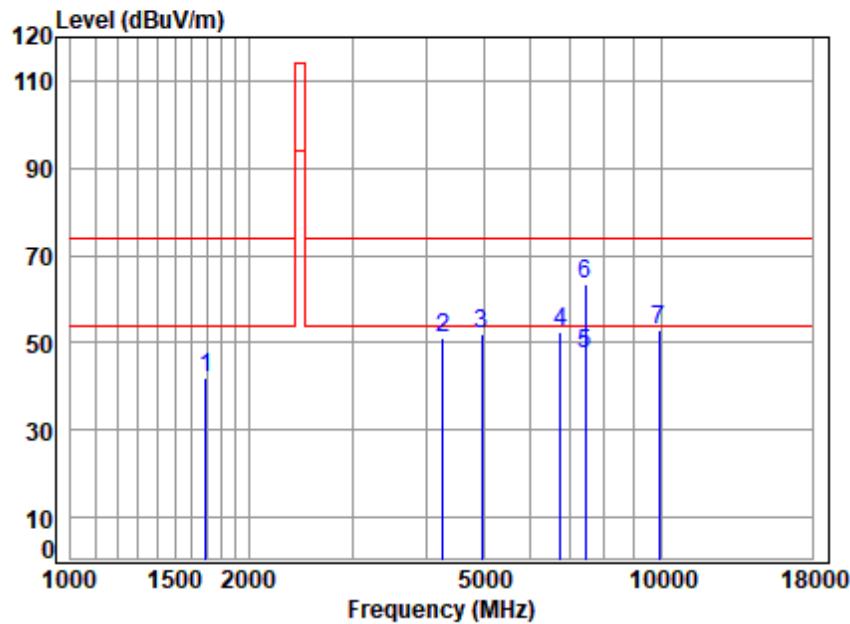
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 02532AT/02534AT
 Mode : 2480 TX RSE
 : 2.4G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit Remark	
							dBuV	dBuV/m
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 1667.951	4.29	26.74	36.47	46.20	40.76	74.00	-33.24	peak
2 4329.354	7.01	33.60	34.56	44.52	50.57	74.00	-23.43	peak
3 4960.000	7.41	34.22	34.96	44.64	51.31	74.00	-22.69	peak
4 6679.040	8.69	35.60	35.65	44.19	52.83	74.00	-21.17	peak
5 q 7440.000	9.46	35.90	35.99	35.03	44.40	54.00	-9.60	Average
6 q 7440.000	9.46	35.90	35.99	51.29	60.66	74.00	-13.34	peak
7 9920.000	12.58	37.30	35.57	38.81	53.12	74.00	-20.88	peak

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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 02532AT/02534AT
Mode : 2480 TX RSE
: 2.4G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	
							dBuV	dBuV/m
1 1692.231	4.32	26.78	36.42	47.10	41.78	74.00	-32.22	peak
2 4267.237	6.97	33.60	34.52	45.22	51.27	74.00	-22.73	peak
3 4960.000	7.41	34.22	34.96	45.17	51.84	74.00	-22.16	peak
4 6756.708	8.75	35.50	35.71	43.89	52.43	74.00	-21.57	peak
5 q 7440.000	9.46	35.90	35.99	37.98	47.35	54.00	-6.65	Average
6 q 7440.000	9.46	35.90	35.99	54.24	63.61	74.00	-10.39	peak
7 9920.000	12.58	37.30	35.57	38.73	53.04	74.00	-20.96	peak

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8 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2308002532AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2308002532AT

- End of the Report -



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

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