

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

Report No.: SZCR230800275102

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TEST REPORT

Application No.: SZCR2308002751ET (SGS HK NO.: T32320310028EM)

Applicant: Revell GmbH

Address of Applicant: Henschelstr. 20-30, Buende 32257 Germany

Buyer: Revell Supplier: Junda

Equipment Under Test (EUT):

EUT Name: Mini RC Car with Camper, Horse Trailer

Item No.: 23566, 23567 *

Please refer to section 2 of this report which indicates which item was

actually tested and which were electrically identical.

P.O. No.: Hxxxx
Country of Origin: China
Country of Destination: USA
Labeled Age Grading: 6+

FCC ID: 2A7EW235675010

Standard(s): 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2023-08-24

Date of Test: 2023-08-29 to 2023-09-04

Date of Issue: 2023-10-09

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. xu



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



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	Revision Record					
Version	Version Chapter Date Modifier R					
01		2023-10-09		Original		

Authorized for issue by:		
	Martin Tang	
	Martin Tang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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Test Summary 2

Radio Spectrum Technical Requirement					
Item Standard Method Requirement Resu					
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	
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	47 CFR Part 15, Subpart C 15.249	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	

Declaration of EUT Family Grouping:

Item No.: 23566, 23567

Only the item 23567 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above items, with only difference on item No ..



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General Information

4.1 Details of E.U.T.

Power supply:	3V DC(3V x 1 "CR2032" Button Cell) for remote controller
Operation Frequency:	2404MHz-2474MHz
Modulation Type:	GFSK
Number of Channels:	71
Antenna Type:	PCB Antenna
Antenna Gain:	1.6dBi

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.

Channel List:

Channel	Frequency	Channel	Frequency	Channel	Frequency
	(MHz)		(MHz)		(MHz)
1	2404	25	2428	49	2452
2	2405	26	2429	50	2453
3	2406	27	2430	51	2454
4	2407	28	2431	52	2455
5	2408	29	2432	53	2456
6	2409	30	2433	54	2457
7	2410	31	2434	55	2458
8	2411	32	2435	56	2459
9	2412	33	2436	57	2460
10	2413	34	2437	58	2461
11	2414	35	2438	59	2462
12	2415	36	2439	60	2463
13	2416	37	2440	61	2464
14	2417	38	2441	62	2465
15	2418	39	2442	63	2466
16	2419	40	2443	64	2467
17	2420	41	2444	65	2468
18	2421	42	2445	66	2469
19	2422	43	2446	67	2470
20	2423	44	2447	68	2471
21	2424	45	2448	69	2472
22	2425	46	2449	70	2473
23	2426	47	2450	71	2474
24	2427	48	2451	/	/



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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
			-
The EUT has been tested as	an independent unit.		

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty			
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:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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**

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 Fu	ndamental 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	2022-07-24	2024-07-23
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

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	2022-07-24	2024-07-23
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



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Radiated Emissions Be	low 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	2022-07-24	2024-07-23
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

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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Radio Spectrum Technical Requirement 6

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.

Antenna location: Refer to Internal photos



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Radio Spectrum Matter Test Results 7

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

7.1.1 E.U.T. Operation

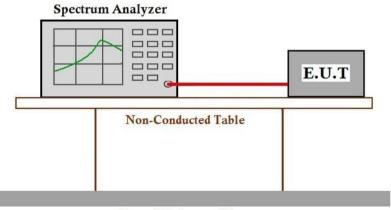
Operating Environment:

Temperature: 25.2 °C Humidity: 49.5 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.177	Pass
Middle	1.185	Pass
Highest	1.186	Pass



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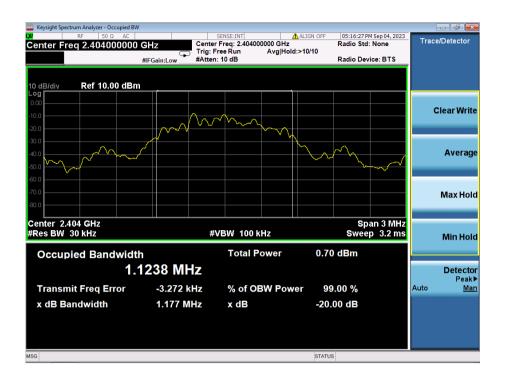
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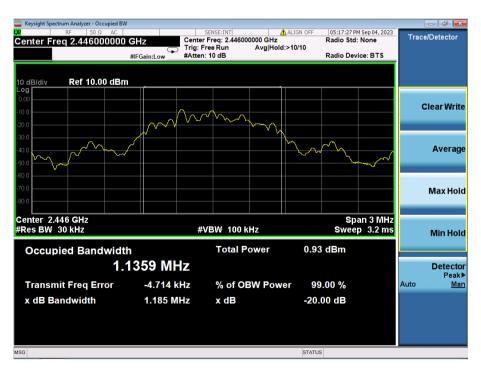


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7.2 Field Strength of the Fundamental Signal (15.249(a))

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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C Humidity: 53.9 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description			
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.			

Average value:

	Average value=Peak value + PDCF
Calculate Formula:	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =0.64ms
	T period =11.66ms
	Duty cycle=5.49%
	PDCF value= -25.21dB



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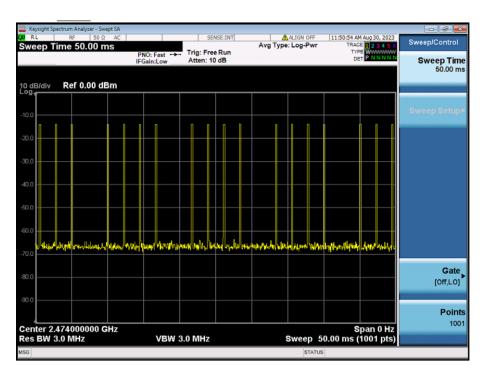
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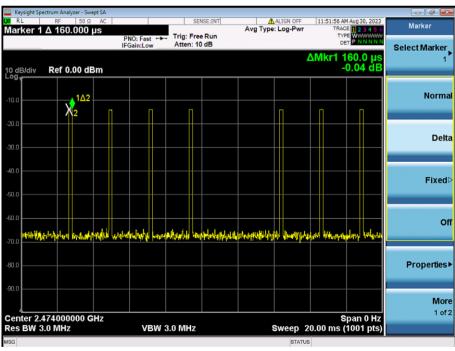


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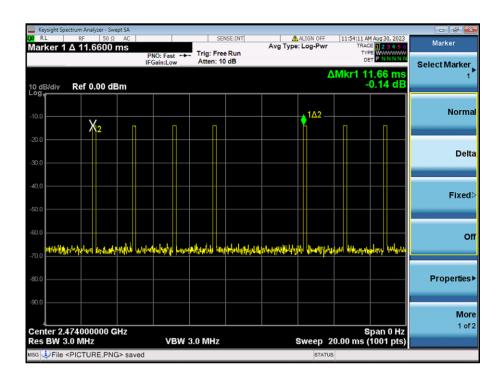
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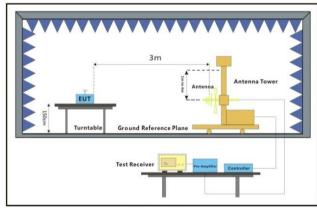
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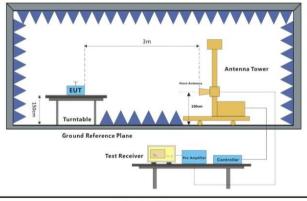
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7.2.3 Test Setup Diagram





30MHz-1GHz Above 1GHz



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7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- c.The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e.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.
- f.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g.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.
- h.Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i.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.
- j.Repeat above procedures until all frequencies measured was complete.
- Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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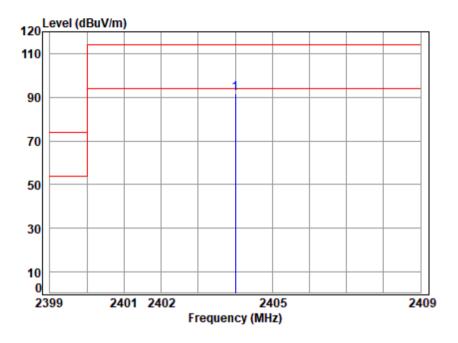


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 02751ET/02752ET : 2404 Field Strengh Mode

> Cable Ant Preamp Read Limit 0ver

Loss Factor Factor Line Limit Remark Freq Level Level

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

1 2404.00 4.26 28.82 39.23 97.79 91.64 114.00 -22.36 peak



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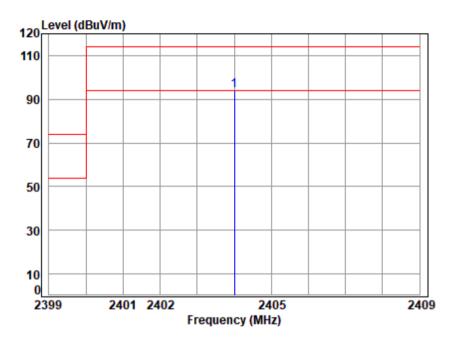


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02751ET/02752ET : 2404 Field Strengh Mode

> Cable Ant Preamp Read Limit 0ver

Loss Factor Factor Level Level Line Limit Remark Freq

MHz dB dB/m dBuV dBuV/m dBuV/m dB

1 2404.00 4.26 28.82 39.23 100.14 93.99 114.00 -20.01 peak



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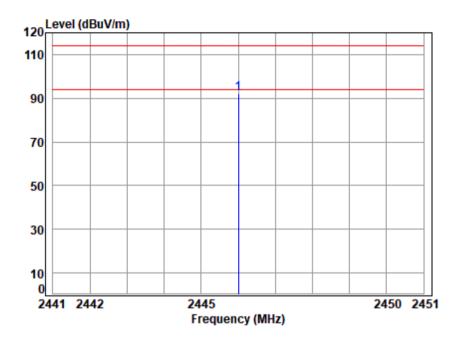


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 02751ET/02752ET : 2446 Field Strengh Mode

> Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Freq Level Level

MHz dB dB/m dB dBuV dBuV/m dBuV/m

1 2446.00 4.31 29.08 39.25 98.10 92.24 114.00 -21.76 Peak



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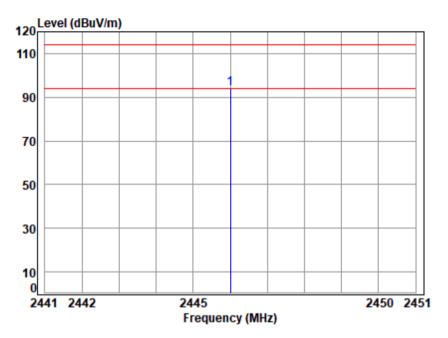


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL : 02751ET/02752ET : 2446 Field Strengh Mode

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dB dBuV dBuV/m dBuV/m

1 2446.00 4.31 29.08 39.25 99.80 93.94 114.00 -20.06 Peak



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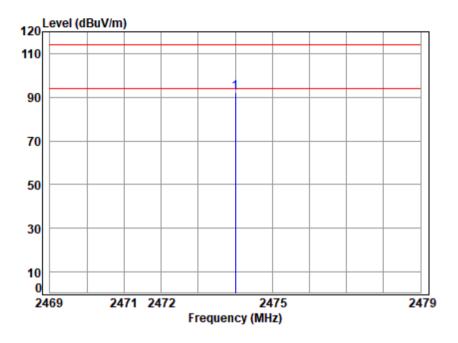


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02751ET/02752ET : 2474 Field Strengh Mode

> Cable Ant Preamp Read Limit 0ver

Loss Factor Factor Line Limit Remark Freq Level Level

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

1 2474.00 4.33 29.24 39.26 97.84 92.15 114.00 -21.85 peak

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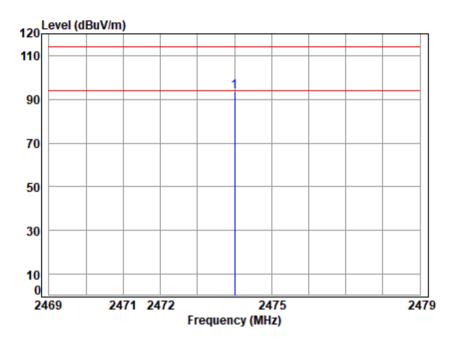


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Test Mode: 00; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber Condition: 3m VERTICAL : 02751ET/02752ET Mode : 2474 Field Strengh

Cable Limit Ant Preamp Read 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2474.00 4.33 29.24 39.26 99.19 93.50 114.00 -20.50 peak

Remark:

1

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

The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation. So, only the above measurement data were shown in the report.



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7.3 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.

7.3.1 E.U.T. Operation

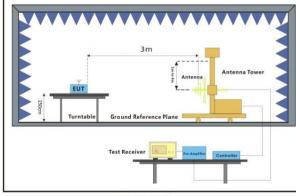
Operating Environment:

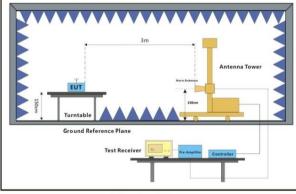
Temperature: 22.3 °C Humidity: 52.1 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.3.3 Test Setup Diagram





30MHz-1GHz Above 1GHz



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7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. 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.
- j. Repeat above procedures until all frequencies measured was complete.

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



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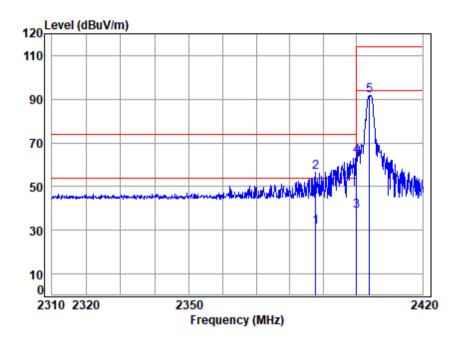


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

> 1 2 3

Condition: 3m HORIZONTAL : 02751ET/02752ET Mode : 2404 Band edge

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq			Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2387.79	4.25	28.75	39.22	37.60	31.38	74.00	-42.62	Average
2	2387.79	4.25	28.75	39.22	62.81	56.59	74.00	-17.41	Peak
}	2400.00	4.26	28.80	39.22	44.80	38.64	74.00	-35.36	Average
Ļ	2400.00			39.22					_
,	2404.00	4.26	28.82	39.23	97.79	91.64	114.00	-22.36	peak



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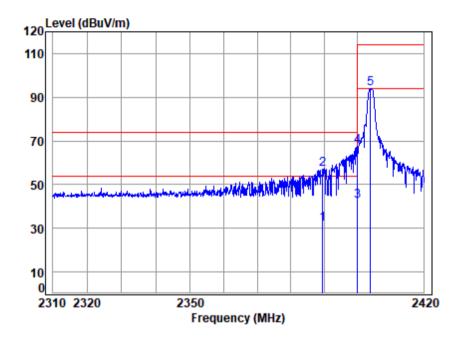


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02751ET/02752ET Mode : 2404 Band edge

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.57	4.25	28.76	39.22	37.99	31.78	74.00	-42.22	Average
2	2389.57	4.25	28.76	39.22	63.20	56.99	74.00	-17.01	Peak
3	2400.00	4.26	28.80	39.22	48.51	42.35	74.00	-31.65	Average
4	2400.00	4.26	28.80	39.22	73.72	67.56	74.00	-6.44	peak
5	2404.00	4.26	28.82	39.23	100.14	93.99	114.00	-20.01	peak



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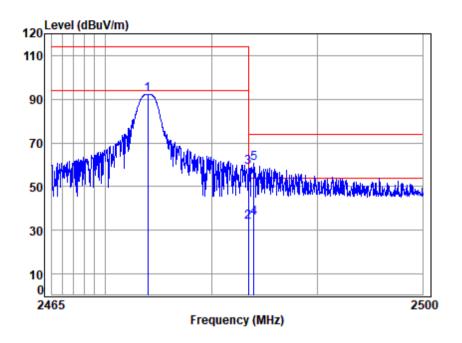


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02751ET/02752ET Mode : 2474 Band edge

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2474.00	4.33	29.24	39.26	97.84	92.15	114.00	-21.85	peak
2	2483.50	4.34	29.30	39.27	39.42	33.79	74.00	-40.21	Average
3	2483.50	4.34	29.30	39.27	64.63	59.00	74.00	-15.00	peak
4	2484.01	4.34	29.30	39.27	41.00	35.37	74.00	-38.63	Average
5	2484.01	4.34	29.30	39.27	66.21	60.58	74.00	-13.42	Peak



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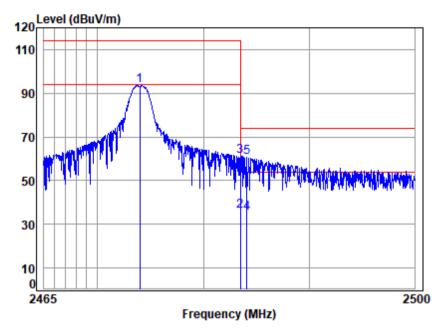


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 02751ET/02752ET Mode : 2474 Band edge

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1				39.26					•
2	2483.50 2483.50			39.27 39.27					_
4									Average
5	2484.12	4.34	29.31	39.27	66.10	60.48	74.00	-13.52	Peak



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7.4 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		

7.4.1 E.U.T. Operation

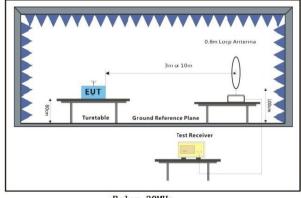
Operating Environment:

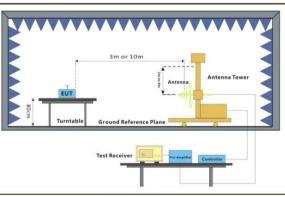
20.1 °C Temperature: Humidity: 51.4 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

7.7.2 10001	.040 00	outpust.
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.4.3 Test Setup Diagram





30MHz-1GHz Below 30MHz



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7.4.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 or 10 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 quasi-peak method as specified and then reported in a data sheet.
- q. 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 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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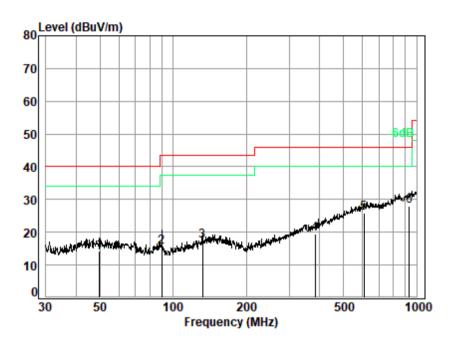


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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL : 02751ET/02752ET

Mode : 00

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	49.88	0.79	12.57	27.17	28.13	14.32	40.00	-25.68	QP
2	89.90	1.09	11.93	27.03	29.57	15.56	43.50	-27.94	QP
3	132.22	1.32	11.72	26.87	31.25	17.42	43.50	-26.08	QP
4	383.93	2.42	21.29	26.45	22.19	19.45	46.00	-26.55	QP
5	607.79	3.14	25.62	27.07	24.08	25.77	46.00	-20.23	QP
6	935.55	4.11	28.55	25.76	20.95	27.85	46.00	-18.15	QP



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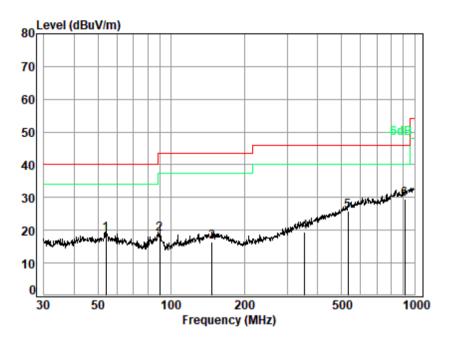


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Test Mode: 00; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL : 02751ET/02752ET

Mode : 00

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						dD: \// /m	dD: 3// /m		
	MHz	dB	ub/m	dB	abuv	abuv/m	abuv/m	dB	
1	54.07	0.81	12.01	27.15	33.16	18.83	40.00	-21.17	QP
2	89.90	1.09	11.93	27.03	32.72	18.71	43.50	-24.79	QP
3	146.89	1.40	12.69	26.81	29.18	16.46	43.50	-27.04	QP
4	352.94	2.31	20.39	26.36	23.19	19.53	46.00	-26.47	QP
5	531.96	2.91	24.27	26.90	25.43	25.71	46.00	-20.29	QP
6	909.67	4.05	28.42	25.86	22.85	29.46	46.00	-16.54	QP



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7.5 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

7.5.1 E.U.T. Operation

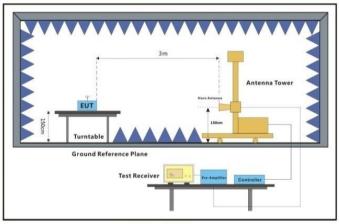
Operating Environment:

Temperature: 21.5 °C Humidity: 52.8 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.5.3 Test Setup Diagram



Above 1GHz



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7.5.4 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.
- a. 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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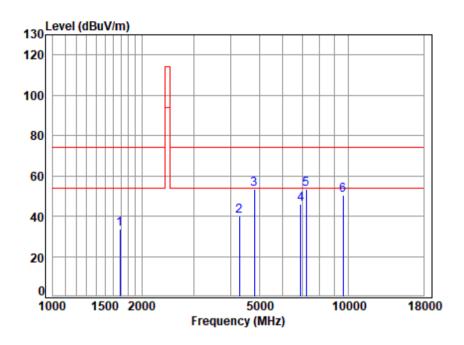


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Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 02751ET/02752ET Mode : 2404 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	d Bu V/m	dB	
1	1687.35	3.47	26.77	38.85	42.11	33.50	74.00	-40.50	peak
2	4279.59	6.56	33.60	40.51	40.25	39.90	74.00	-34.10	peak
3	4808.00	7.05	33.83	40.88	53.61	53.61	74.00	-20.39	peak
4	6894.81	8.30	35.60	40.68	42.89	46.11	74.00	-27.89	peak
5	7212.00	8.52	35.80	40.47	49.53	53.38	74.00	-20.62	peak
6	9616.00	10.39	37.10	37.03	40.10	50.56	74.00	-23.44	peak



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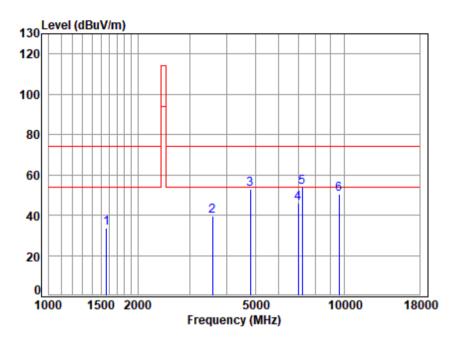


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02751ET/02752ET · 2/0/ TY RSF Mode

ue	: 2404	IV V							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.72	2 22	26 14	38.79	12 01	22 40	74 00	40 E1	nook
1									•
2	3577.46	5.71	31.86	39.99	41.96	39.54	74.00	-34.46	peak
3	4808.00	7.05	33.83	40.88	53.11	53.11	74.00	-20.89	peak
4	6995.17	8.32	35.79	40.60	42.37	45.88	74.00	-28.12	peak
5	7212.00	8.52	35.80	40.47	49.99	53.84	74.00	-20.16	peak
6	9616.00	10.39	37.10	37.03	40.06	50.52	74.00	-23.48	peak



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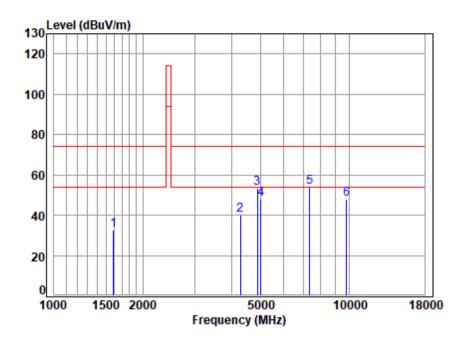


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL : 02751ET/02752ET Mode : 2446 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.57	3.36	26.41	38.80	41.84	32.81	74.00	-41.19	peak
2	4279.59	6.56	33.60	40.51	40.26	39.91	74.00	-34.09	peak
3	4892.00	7.12	34.08	40.93	52.94	53.21	74.00	-20.79	peak
4	5031.50	7.24	34.24	41.01	47.56	48.03	74.00	-25.97	peak
5	7338.00	8.64	35.90	40.39	49.58	53.73	74.00	-20.27	peak
6	9784.00	10.46	37.20	36.75	37.12	48.03	74.00	-25.97	peak



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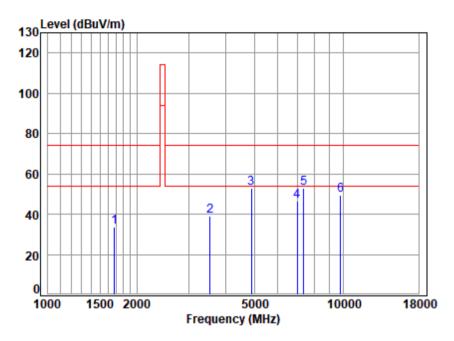


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL : 02751ET/02752ET · 2446 TX RSF Mode

oue	: Z440	IV V							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.48	3.47	26.77	38.85	42.11	33.50	74.00	-40.50	peak
2	3546.58	5.67	31.80	39.97	41.79	39.29	74.00	-34.71	peak
3	4892.00	7.12	34.08	40.93	52.81	53.08	74.00	-20.92	peak
4	6995.17	8.32	35.79	40.60	42.94	46.45	74.00	-27.55	peak
5	7338.00	8.64	35.90	40.39	48.96	53.11	74.00	-20.89	peak
6	9784.00	10.46	37.20	36.75	38.38	49.29	74.00	-24.71	peak



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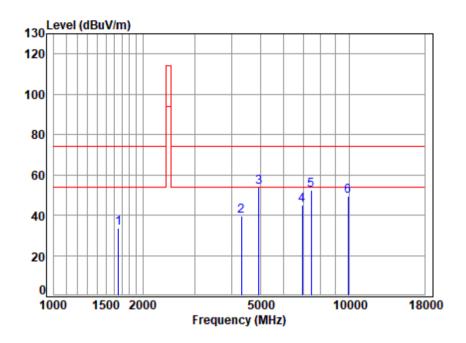


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Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL : 02751ET/02752ET Mode : 2474 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4653.55	2.42	26.74	20.04	40.06	22.56	74.00	40.44	
1	1653.55	3.43	26./1	38.84	42.26	33.56	74.00	-40.44	реак
2	4316.86	6.60	33.60	40.54	39.70	39.36	74.00	-34.64	peak
3	4948.00	7.17	34.20	40.97	53.23	53.63	74.00	-20.37	peak
4	6934.78	8.31	35.67	40.65	41.72	45.05	74.00	-28.95	peak
5	7422.00	8.71	35.90	40.34	48.18	52.45	74.00	-21.55	peak
6	9896.00	10.51	37.30	36.57	38.18	49.42	74.00	-24.58	peak



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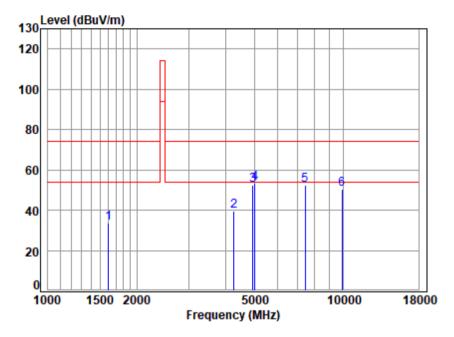


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Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 02751ET/02752ET Mode : 2474 TX RSE

			_						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1606.44	3.38	26.53	38.81	42.55	33.65	74.00	-40.35	peak
2	4267.24	6.55	33.60	40.50	39.77	39.42	74.00	-34.58	peak
3	4948.00	7.17	34.20	40.97	52.05	52.45	74.00	-21.55	peak
4	5031.50	7.24	34.24	41.01	52.69	53.16	74.00	-20.84	peak
5	7422.00	8.71	35.90	40.34	48.05	52.32	74.00	-21.68	peak
6	9896.00	10.51	37.30	36.57	39.29	50.53	74.00	-23.47	peak



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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2308002751ET

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - external and internal photos for SZCR2308002751ET

- End of the Report -



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