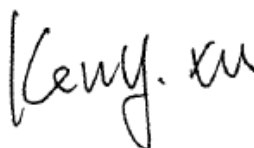


TEST REPORT

Application No.: SZCR2605001970ET
Applicant: Mattel Asia Pacific Sourcing Ltd.
Address of Applicant: 11/F., South Tower, World Finance Centre, Harbour City, Tsimshatsui, Kowloon, HongKong
Manufacturer: Mattel Asia Pacific Sourcing Ltd.
Address of Manufacturer: 11/F., South Tower, World Finance Centre, Harbour City, Tsimshatsui, Kowloon, HongKong
Factory: FIRSTUNION ANIMATION TECHNOLOGY VIETNAM CO., LTD
Address of Factory: CCN1 + CCN2 Lot, Thuy Son Industrial Zone, Thuy Anh Commune, Hung Yen Province, Vietnam
Equipment Under Test (EUT):
EUT Name: Thomas Easy Drive RC Engine™
Model No.: JPN17, JVV73 ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID: PIYJPN17-26A5T
Standard(s) : 47 CFR Part 15, Subpart C 15.249
Date of Receipt: 2026-05-11
Date of Test: 2026-05-12 to 2026-06-02
Date of Issue: 2026-06-04

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

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


 Keny Xu
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-06-04		Original

Authorized for issue by:				
		Gebin Sun		
		Gebin Sun/Project Engineer		
		Eric Fu		
		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
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2020) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2020) 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 (2020) 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 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
20dB Bandwidth		ANSI C63.10 (2020) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass

Declaration of EUT Family Grouping:

Model No.: JPN17, JVV73

Only the model JPN17 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on cosmetic appearance, packaging and audio content (language only).



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4 General Information

4.1 Details of E.U.T.

Power supply:	3V DC (1.5V x 2 "AAA" Size Batteries) for remote
Operation Frequency:	2420MHz to 2470MHz
Modulation Type:	GFSK
Number of Channels:	51
Channel Spacing:	1MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0.23dBi

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.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Field Strength of the Fundamental Signal (15.249(a))	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Restricted Band Around Fundamental Frequency	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1GHz-18GHz); $\pm 4.8\text{dB}$ (18MHz-40GHz)
20dB Bandwidth	$\pm 0.3\%$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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.
- the measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



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4.4 Test Location

All tests were performed at:

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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

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22
Coaxial Cable	SGS	N/A	SEM039-01	2025-07-03	2026-07-04

Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Coaxial Cable	SGS	N/A	SEM039-01	2025-07-03	2026-07-04

Radiated Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04
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Radiated Emissions Above 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-12-16	2026-12-15
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Coaxial Cable	SGS	N/A	SEM039-01	2025-07-03	2026-07-04

RF Conducted Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2026-02-03	2027-02-02
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2026-02-14	2027-02-13



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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

Standard 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.23dBi

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 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 (2020) Section 6.5&6.6
 Measurement Distance: 3m
 Test Engineer: Mihawk Li

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 58.3 % RH Atmospheric Pressure: 1015 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.



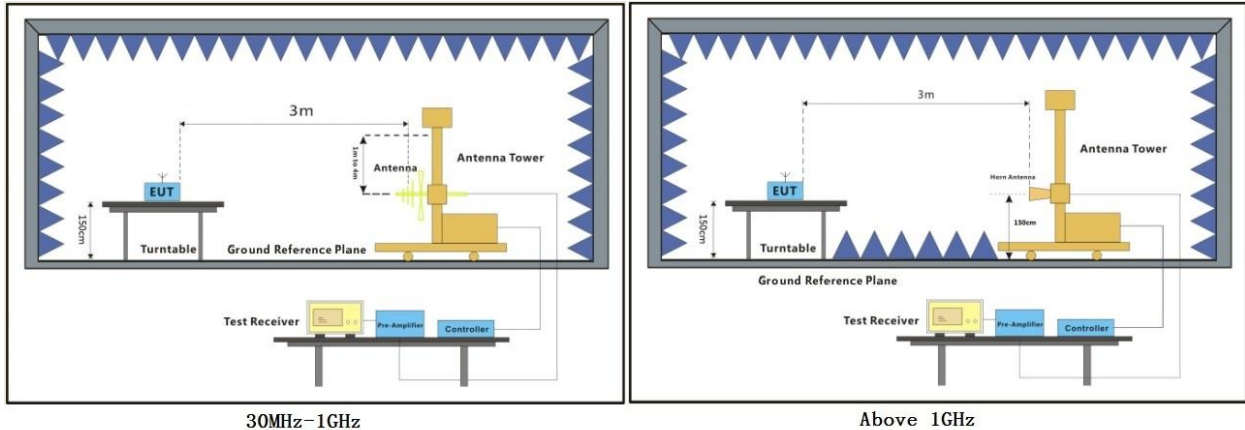
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7.1.3 Test Setup Diagram

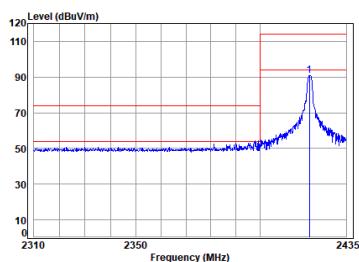


7.1.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 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 or 10 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

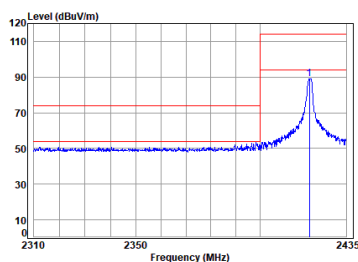
2.4G_SRD_TX_LOW_Horizontal



Condition: 3m HORIZONTAL
Job No : 01970ET/01968ET
Mode : 2428MHz

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2428.000	6.97	27.74	30.60	86.86	90.97	114.00	-23.03	Peak	0.00

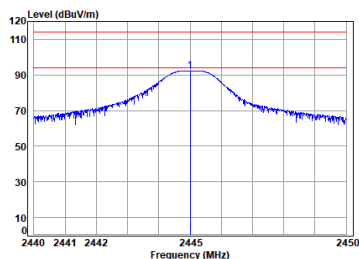
2.4G_SRD_TX_LOW_Vertical



Condition: 3m VERTICAL
Job No : 01970ET/01968ET
Mode : 2428MHz

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2428.000	6.97	27.74	30.60	85.07	89.18	114.00	-24.82	Peak	0.00

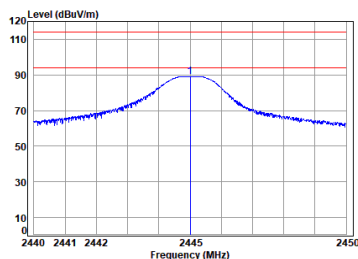
2.4G_SRD_TX_MID_Horizontal



Condition: 3m HORIZONTAL
Job No : 01970ET/01968ET
Mode : 2445MHz

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2445.000	7.14	27.79	30.60	87.96	92.29	114.00	-21.71	Peak	0.00

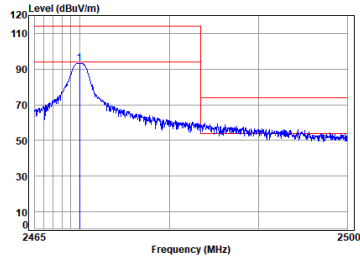
2.4G_SRD_TX_MID_Vertical



Condition: 3m VERTICAL
Job No : 01970ET/01968ET
Mode : 2445MHz

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2445.000	7.14	27.79	30.60	84.80	89.13	114.00	-24.87	Peak	0.00

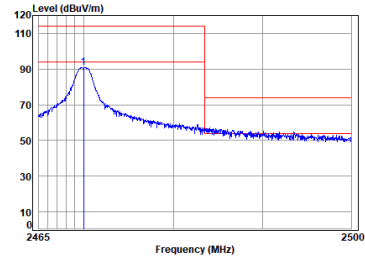
2.4G_SRD_TX_HIGH_Horizontal



Condition: 3m HORIZONTAL
Job No : 01970ET/01968ET
Mode : 2470MHz

Condition	Cable	Ant	Preamp	Read	Limit	Over	Aux
Factor	Loss	Factor	Level	Line	Limit	Remark	Factor
Freq	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 pp 2470.000	7.31	27.88	30.60	88.59	93.18	114.00 -20.82 Peak	0.00

2.4G_SRD_TX_HIGH_Vertical



Condition: 3m VERTICAL
Job No : 01970ET/01968ET
Mode : 2470MHz

Condition	Cable	Ant	Preamp	Read	Limit	Over	Aux
Factor	Loss	Factor	Level	Line	Limit	Remark	Factor
Freq	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 pp 2470.000	7.31	27.88	30.60	86.08	90.67	114.00 -23.33 Peak	0.00



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7.2 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 (2020) Section 6.10.5
 Measurement Distance: 3m
 Test Engineer: Mihawk Li

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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.3 °C Humidity: 54.9 % RH Atmospheric Pressure: 1015 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.

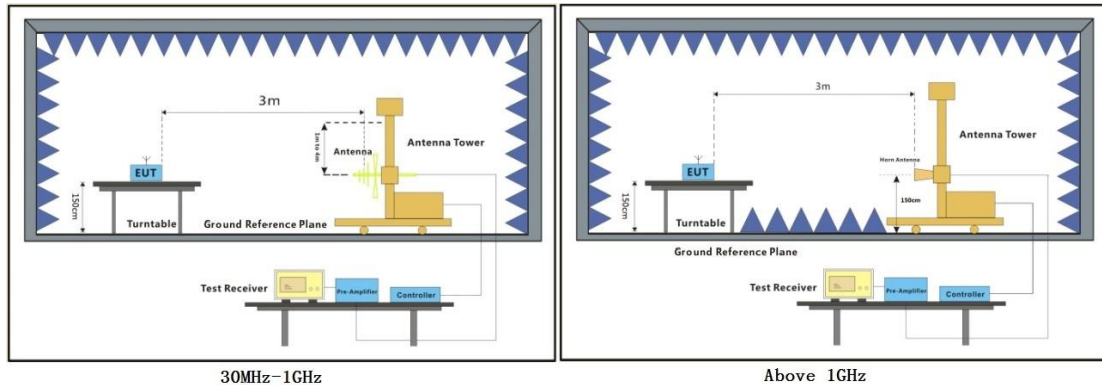


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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- The antenna height is varied from 1m to 4m 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 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) 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. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



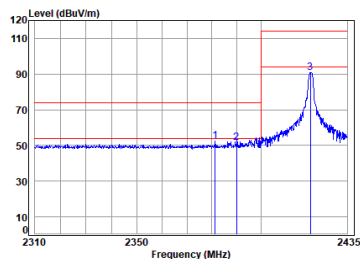
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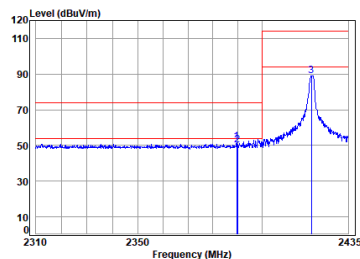
2.4G_SRD_TX_LOW_Horizontal



Condition: 3m HORIZONTAL
Job No : 01970ET/01968ET
Mode : 2420 Band edge
: 2.4G SRD Remote

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2381.328	6.82	27.66	30.60	48.79	52.67	74.00	-21.33	Peak	0.00
2 2390.000	6.83	27.68	30.60	47.76	51.67	74.00	-22.33	Peak	0.00
3 2420.000	6.97	27.74	30.60	86.86	90.97	114.00	-23.03	Peak	0.00

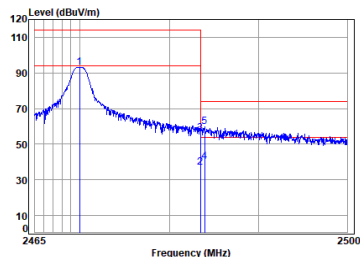
2.4G_SRD_TX_LOW_Vertical



Condition: 3m VERTICAL
Job No : 01970ET/01968ET
Mode : 2420 Band edge
: 2.4G SRD Remote

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp 2389.617	6.82	27.68	30.60	48.23	52.13	74.00	-21.87	Peak	0.00
2 2390.000	6.83	27.68	30.60	46.50	50.41	74.00	-23.59	Peak	0.00
3 2420.000	6.97	27.74	30.60	85.07	89.18	114.00	-24.82	Peak	0.00

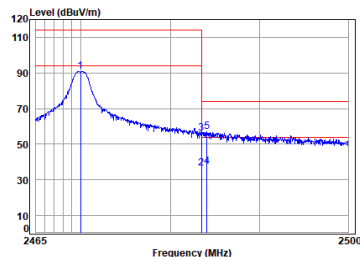
2.4G_SRD_TX_HIGH_Horizontal



Condition: 3m HORIZONTAL
Job No : 01970ET/01968ET
Mode : 2470 Band edge
: 2.4G SRD Remote

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 2470.000	7.31	27.88	30.60	88.59	93.18	114.00	-20.82	Peak	0.00
2 2483.500	7.40	27.93	30.60	32.15	36.88	54.00	-17.12	Average	0.00
3 2483.500	7.40	27.93	30.60	51.61	56.34	74.00	-17.66	Peak	0.00
4 pp 2483.944	7.40	27.94	30.60	35.36	40.10	54.00	-13.90	Average	0.00
5 pk 2483.944	7.40	27.94	30.60	54.82	59.56	74.00	-14.44	Peak	0.00

2.4G_SRD_TX_HIGH_Vertical



Condition: 3m VERTICAL
Job No : 01970ET/01968ET
Mode : 2470 Band edge
: 2.4G SRD Remote

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 2470.000	7.31	27.88	30.60	86.08	90.67	114.00	-23.33	Peak	0.00
2 2483.500	7.40	27.93	30.60	31.75	36.48	54.00	-17.52	Average	0.00
3 2483.500	7.40	27.93	30.60	51.21	55.94	74.00	-18.06	Peak	0.00
4 pp 2484.119	7.40	27.94	30.60	32.72	37.46	54.00	-16.54	Average	0.00
5 pk 2484.119	7.40	27.94	30.60	52.18	56.92	74.00	-17.08	Peak	0.00

7.3 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
 Test Method: ANSI C63.10 (2020) Section 6.4&6.5
 Measurement Distance: 3m
 Test Engineer: Mason Wu

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

Note

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.
2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 42.6 % RH Atmospheric Pressure: 1015 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.



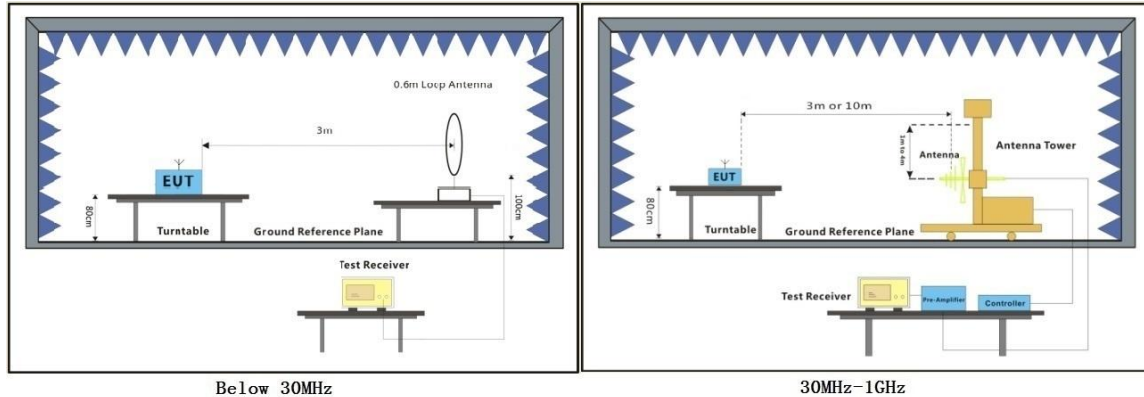
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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- The antenna height is varied from 1m to 4m 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 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) 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:

- 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 below 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.
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

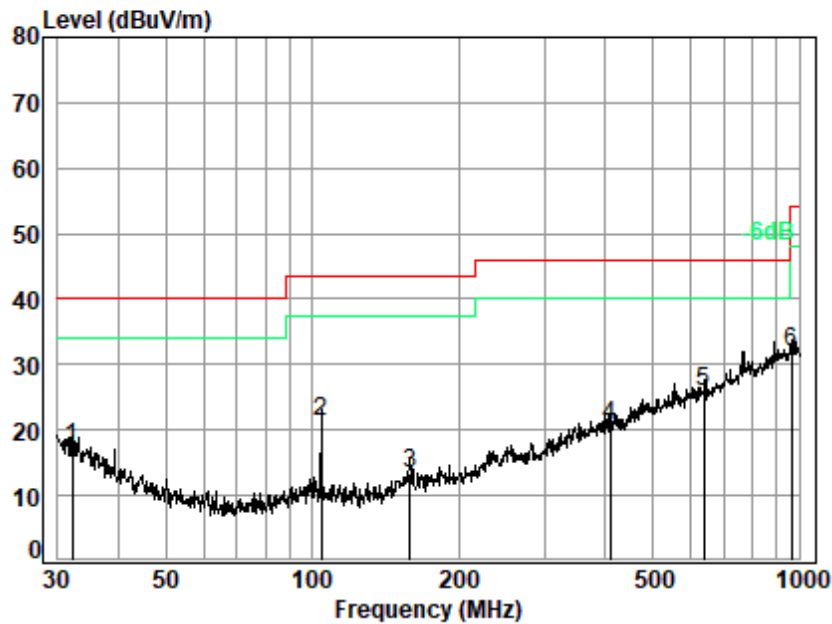
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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260500197002

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Test Mode: 00; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 01968AT/01970AT

Test Mode: 00

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.067	20.38	0.76	27.65	23.79	17.28	40.00	-22.72 QP
2	104.170	12.48	1.25	27.61	35.08	21.20	43.50	-22.30 QP
3	158.668	13.99	1.54	27.73	25.57	13.37	43.50	-30.13 QP
4	408.946	20.64	2.52	27.77	25.15	20.54	46.00	-25.46 QP
5 q	638.369	24.55	3.22	27.99	25.99	25.77	46.00	-20.23 QP
6	965.542	29.47	4.11	26.59	24.87	31.86	54.00	-22.14 QP



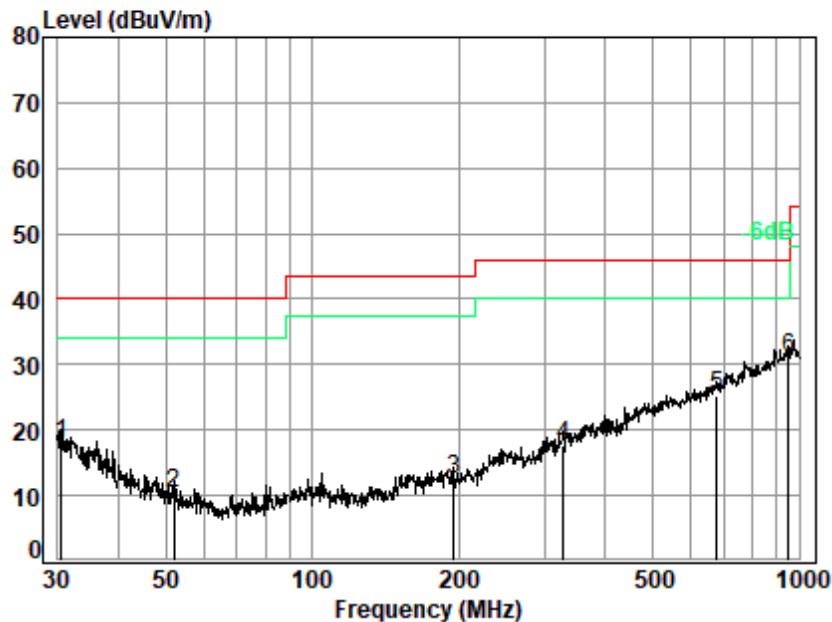
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Test Mode: 00; Polarity: Vertical



Condition: 3m VERTICAL

Job No. : 01968AT/01970AT

Test Mode: 00

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB	
1	30.531	21.18	0.74	27.65	23.74	18.01	40.00	-21.99 QP
2	52.025	12.63	0.90	27.63	24.33	10.23	40.00	-29.77 QP
3	195.137	14.09	1.68	27.79	24.38	12.36	43.50	-31.14 QP
4	327.887	18.53	2.23	27.58	24.50	17.68	46.00	-28.32 QP
5	677.580	25.58	3.34	27.89	24.35	25.38	46.00	-20.62 QP
6 q	952.094	29.21	4.08	26.66	24.34	30.97	46.00	-15.03 QP



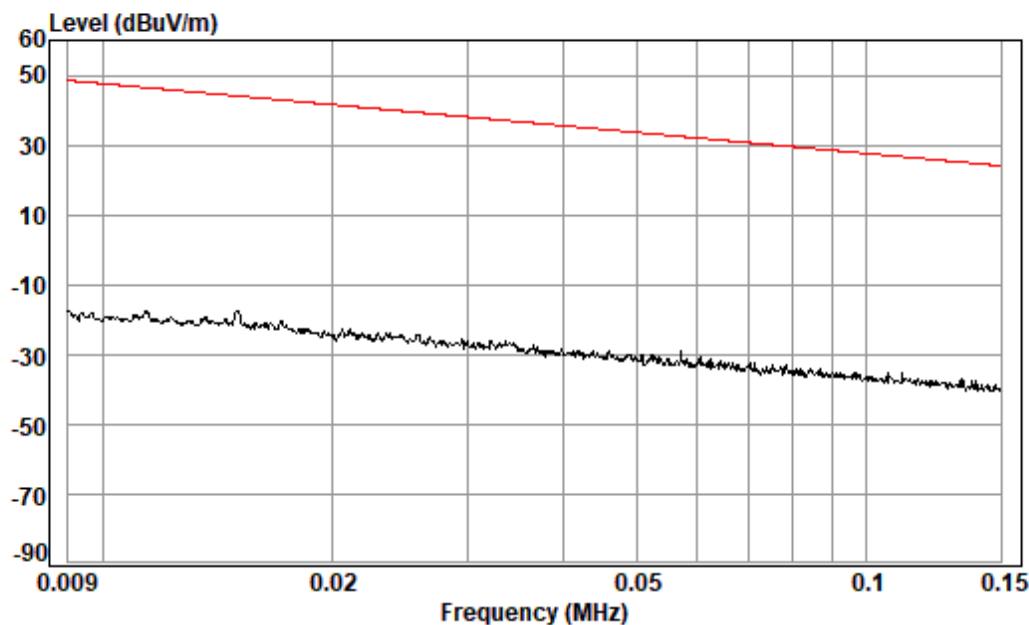
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Test Mode: 00



Condition: 3m

Job No. : 01970ET

Test Mode: 00

: coplanar



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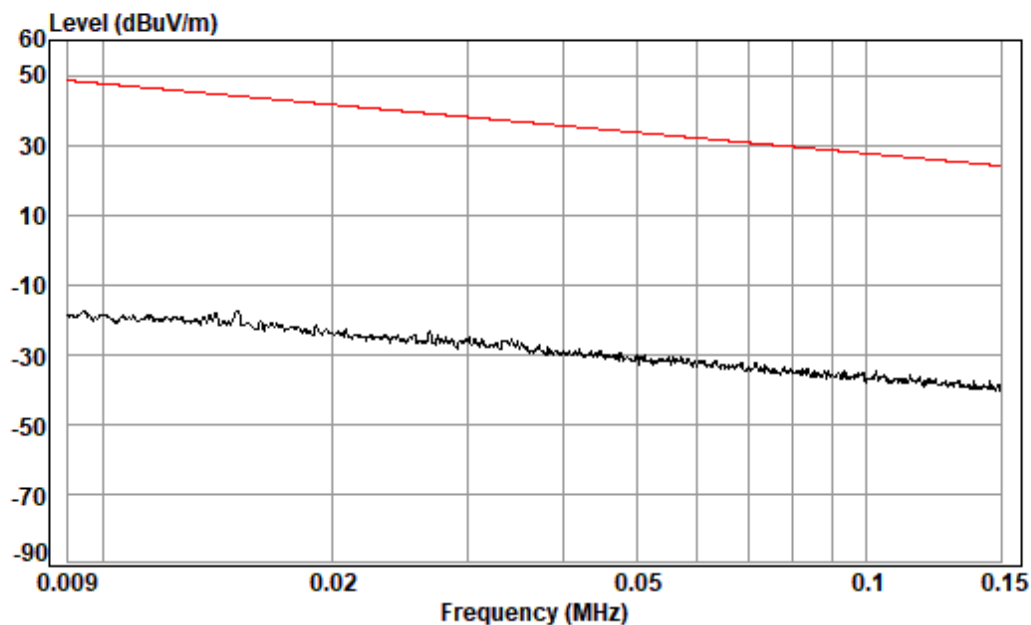
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Test Mode: 00



Condition: 3m

Job No. : 01970ET

Test Mode: 00

: coaxial



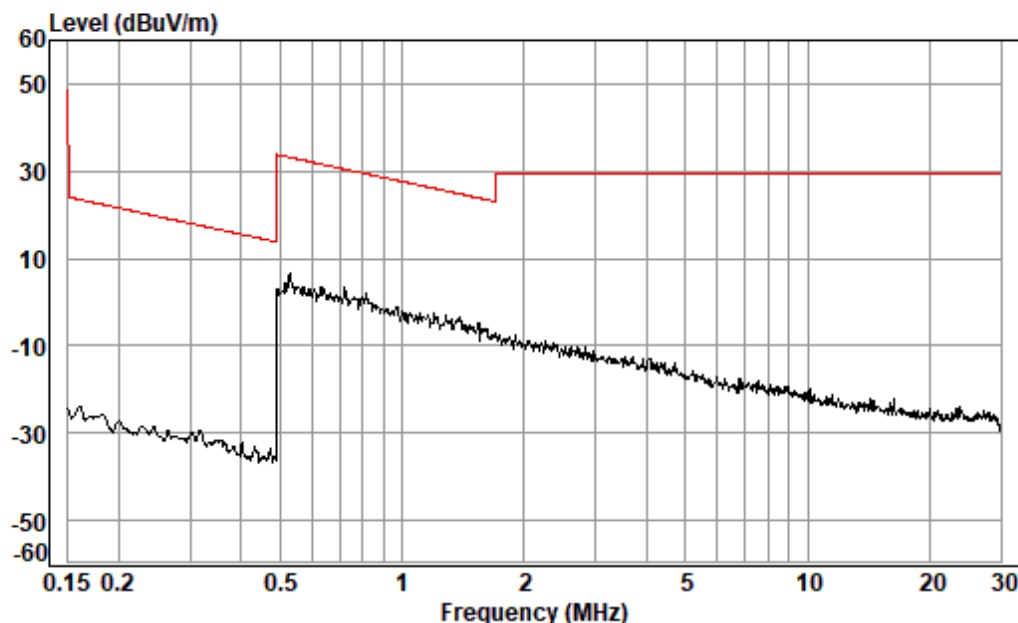
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Test Mode: 00



Condition: 3m

Job No. : 01970ET

Test Mode: 00

: coaxial



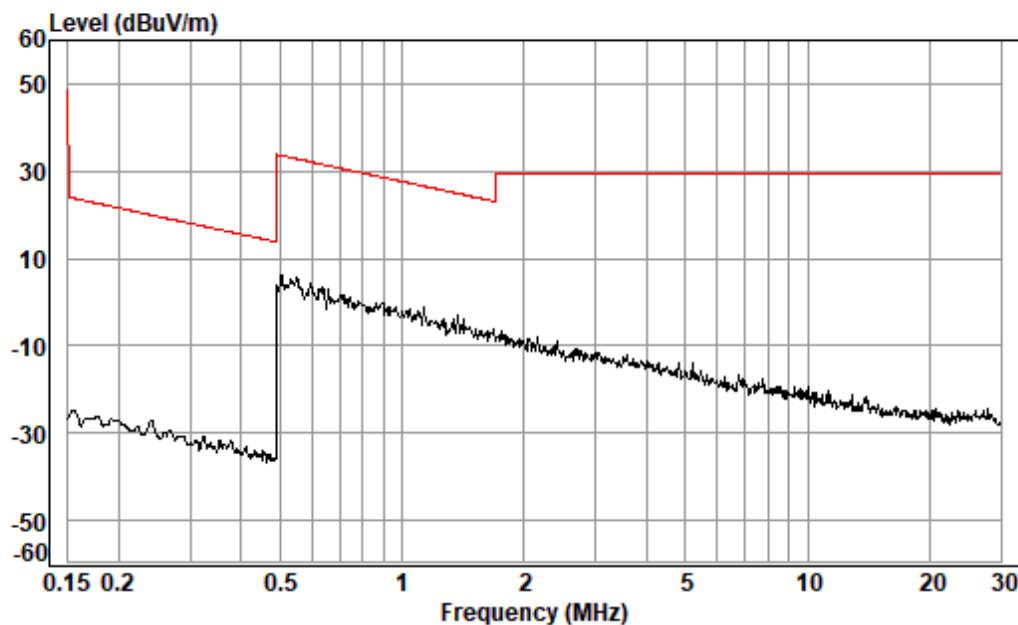
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Test Mode: 00



Condition: 3m

Job No. : 01970ET

Test Mode: 00

: coplanar



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7.4 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
 Test Method: ANSI C63.10 (2020) Section 6.6
 Measurement Distance: 1m & 3m
 Test Engineer: Mihawk Li

Limit:

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

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C Humidity: 55.6 % RH Atmospheric Pressure: 1015 mbar

7.4.2 Test Mode Description

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



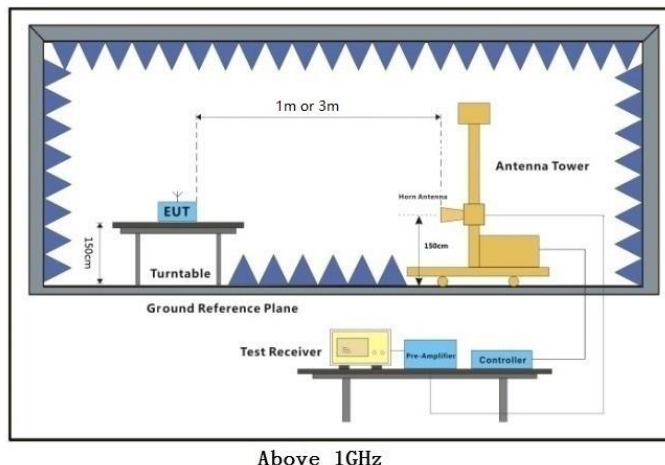
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

- For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- The antenna height is varied from 1m to 4m 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 1m to 4m 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.
- 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:

- Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
- 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.
- For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.



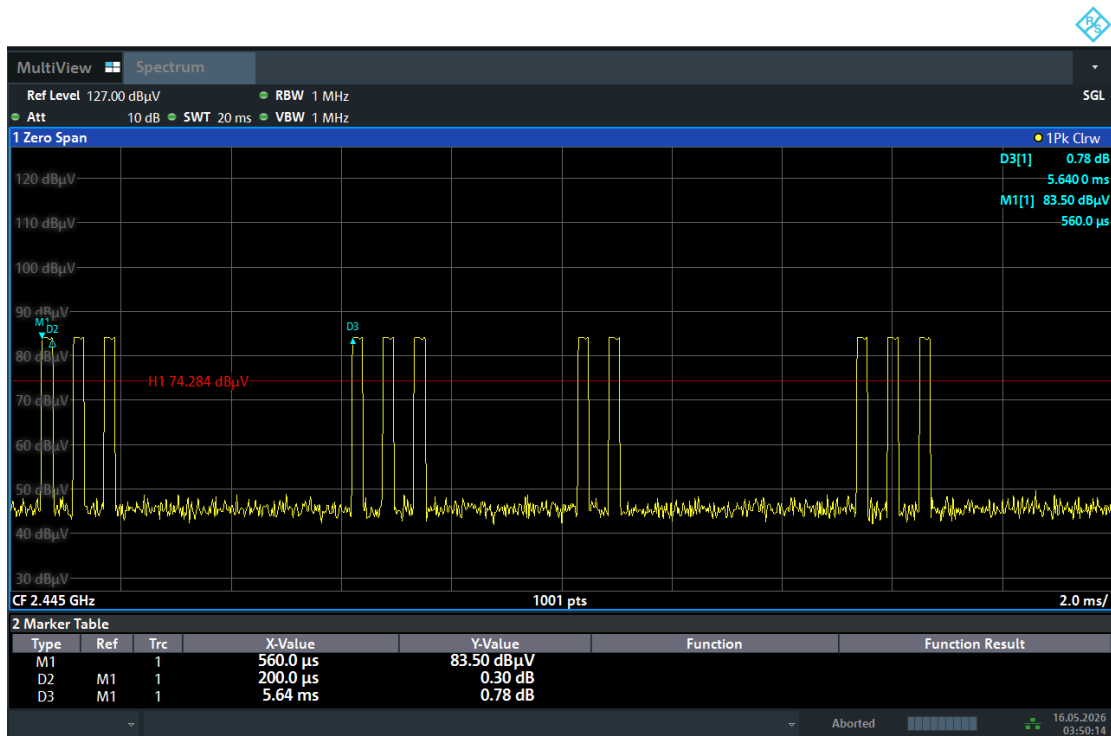
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FCC Band edge and RSE TX Worse

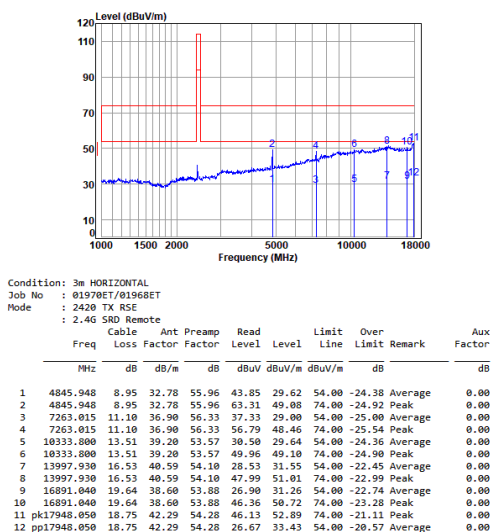


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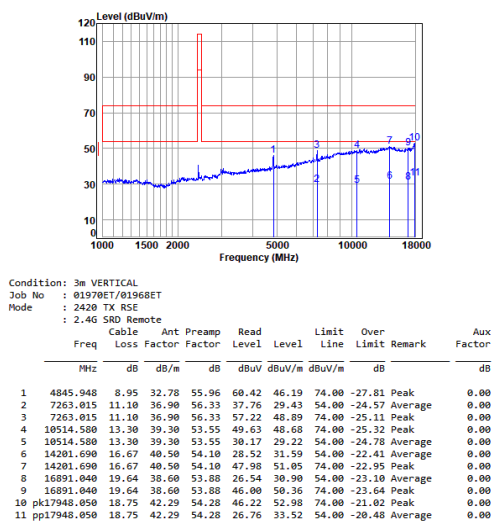
自定义			
On time(ms)	T(ms)	Duty cycle(%)	Duty factor
0.6	5.64	0.1064	-19.46



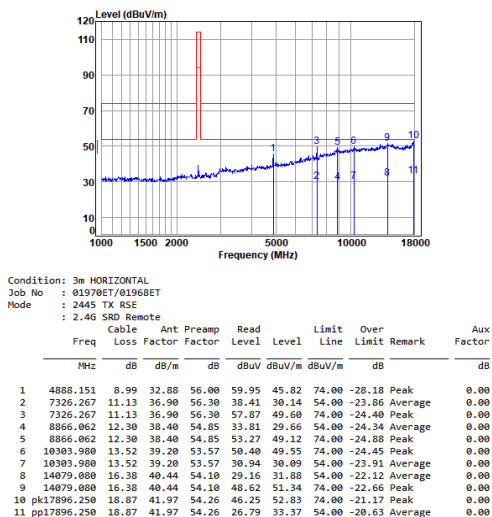
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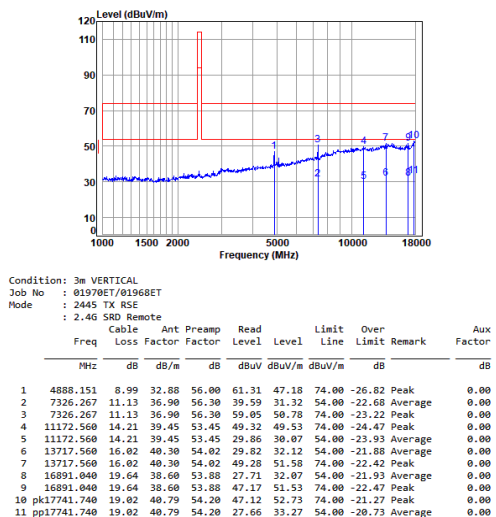
2.4G_SRD_TX_LOW_Vertical



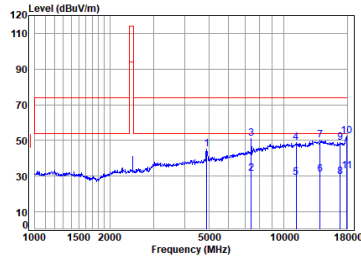
2.4G_SRD_TX_MID_Horizontal



2.4G_SRD_TX_MID_Vertical



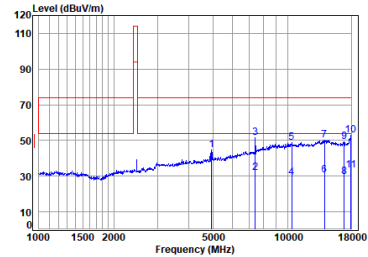
2.4G_SRD_TX_HIGH_Horizontal



Condition: 3m HORIZONTAL
Job No : 01970ET/01968ET
Mode : 2470 TX RSE
: 2.4G SRD Remote

Freq	Cable	Loss	Ant	Preamp	Read	Limit	Over	Aux	
MHz	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	4916.490	9.02	32.97	56.02	59.17	45.14	74.00	-28.86 Peak	0.00
2	7411.461	11.16	36.72	56.24	59.98	31.54	54.00	-22.46 Average	0.00
3	7411.461	11.16	36.72	56.24	59.36	51.00	74.00	-23.00 Peak	0.00
4	11204.900	14.25	39.50	53.44	48.56	48.87	74.00	-25.13 Peak	0.00
5	11204.900	14.25	39.50	53.44	29.10	29.41	54.00	-24.59 Average	0.00
6	13997.930	16.53	48.59	54.10	27.87	30.89	54.00	-23.11 Average	0.00
7	13997.930	16.53	48.59	54.10	47.33	58.35	74.00	-23.65 Peak	0.00
8	16891.040	19.64	38.60	53.88	25.09	29.45	54.00	-24.55 Average	0.00
9	16891.040	19.64	38.60	53.88	44.55	48.91	74.00	-25.09 Peak	0.00
10	pk17948.050	18.75	42.29	54.28	46.02	52.78	74.00	-21.48 Peak	0.00
11	pp17948.050	18.75	42.29	54.28	26.56	33.32	54.00	-20.68 Average	0.00

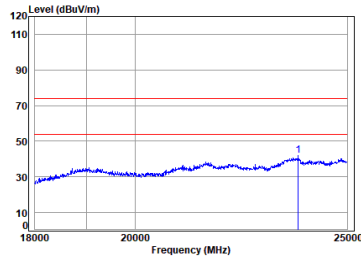
2.4G_SRD_TX_HIGH_Vertical



Condition: 3m VERTICAL
Job No : 01970ET/01968ET
Mode : 2470 TX RSE
: 2.4G SRD Remote

Freq	Cable	Ant	Preamp	Read	Limit	Over		Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Remark	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		dB
1	4944.993	9.05	33.08	56.05	58.70	44.78	74.00 -29.22 Peak	0.00
2	7411.461	11.16	36.72	56.24	40.37	32.01	54.00 -21.99 Average	0.00
3	7411.461	11.16	36.72	56.24	59.83	51.47	74.00 -22.53 Peak	0.00
4	10393.710	13.50	39.20	53.56	30.27	29.41	54.00 -24.59 Average	0.00
5	10393.710	13.50	39.20	53.56	49.73	48.87	74.00 -25.13 Peak	0.00
6	14079.000	16.38	40.44	54.10	28.04	30.76	54.00 -23.24 Average	0.00
7	14079.000	16.38	40.44	54.10	47.50	58.22	74.00 -23.78 Peak	0.00
8	16891.040	19.64	38.60	53.88	25.44	29.80	54.00 -24.20 Average	0.00
9	16891.040	19.64	38.60	53.88	44.90	49.26	74.00 -24.74 Peak	0.00
10	pk17948.050	18.75	42.29	54.28	46.02	52.78	74.00 -21.22 Peak	0.00
11	pp17948.050	18.75	42.29	54.28	26.56	33.32	54.00 -20.68 Average	0.00

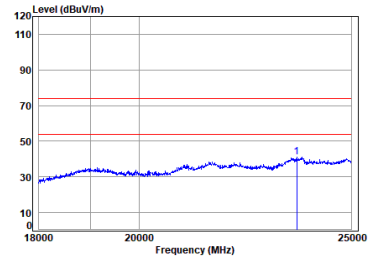
2.4G_SRD_TX_HIGH_Horizontal



Condition: 3m HORIZONTAL
Job No : 01970ET/01968ET
Mode : 2470 TX RSE
: 2.4G SRD Remote

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23743.310	6.77	38.79	50.35	56.15	41.82	74.00	-32.18	Peak	-9.54

2.4G_SRD_TX_HIGH_Vertical



Condition: 3m VERTICAL
Job No : 01970ET/01968ET
Mode : 2470 TX RSE
: 2.4G SRD Remote

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 pp23611.000	6.76	38.52	50.32	55.55	40.97	74.00	-33.03	Peak	-9.54

7.5 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
 Test Method: ANSI C63.10 (2020) Section 6.9
 Test Engineer: Mingli Hu

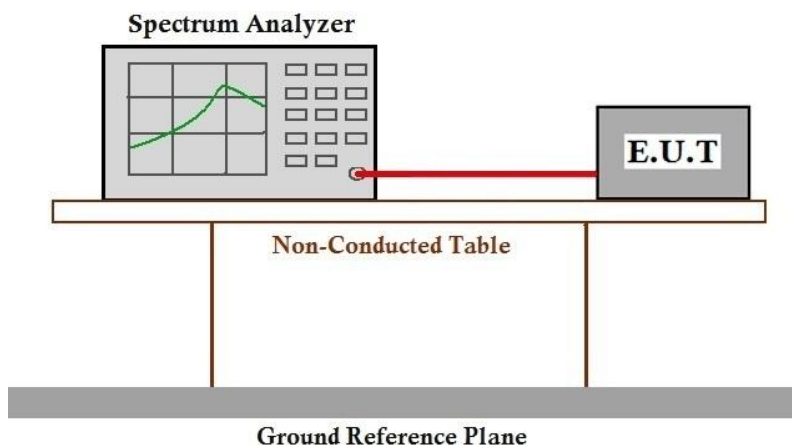
7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 26.4 °C Humidity: 72.1 % RH Atmospheric Pressure: 1015 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



7.5.4 Measurement Procedure and Data



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2420MHz



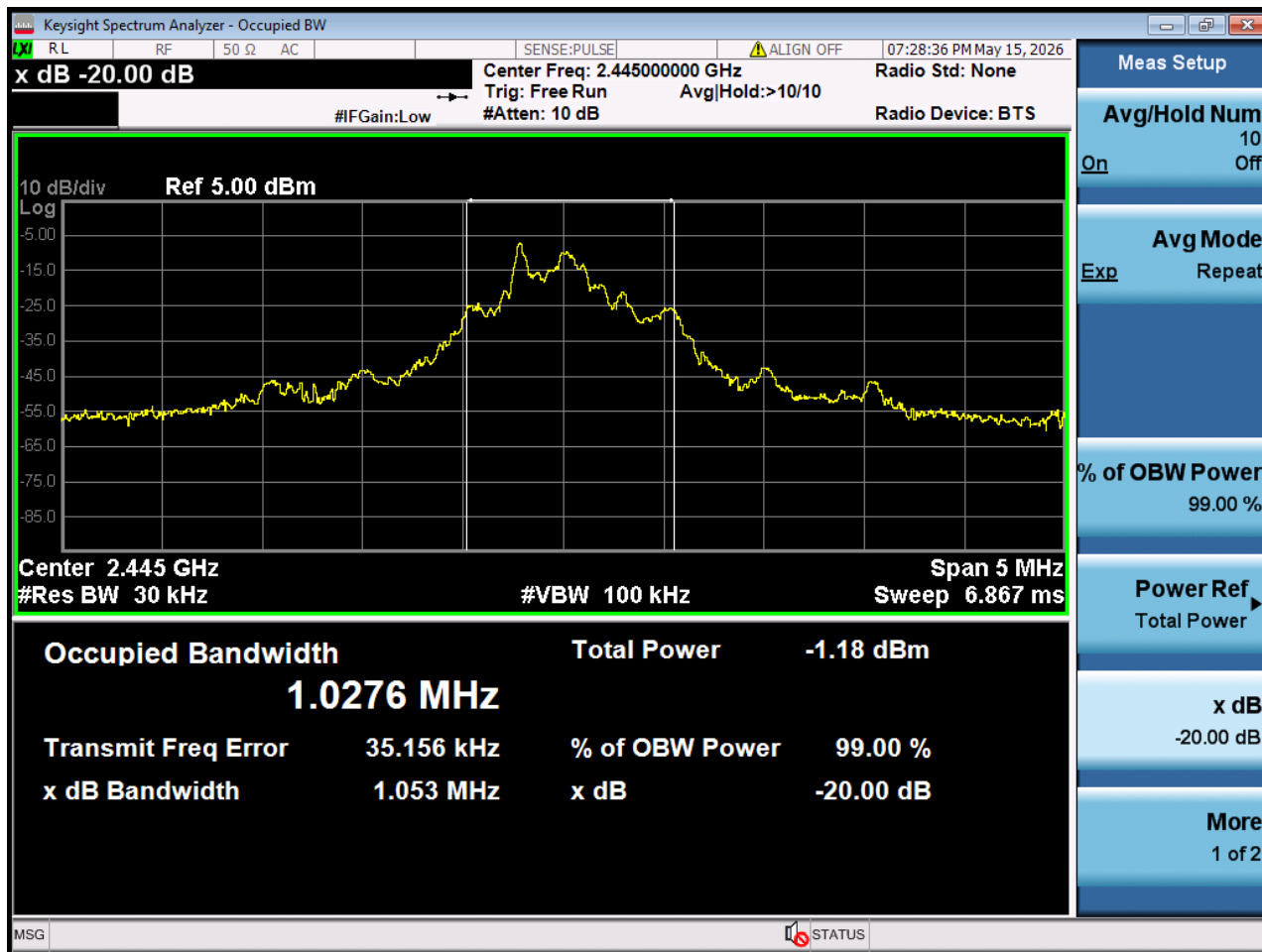
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2445MHz



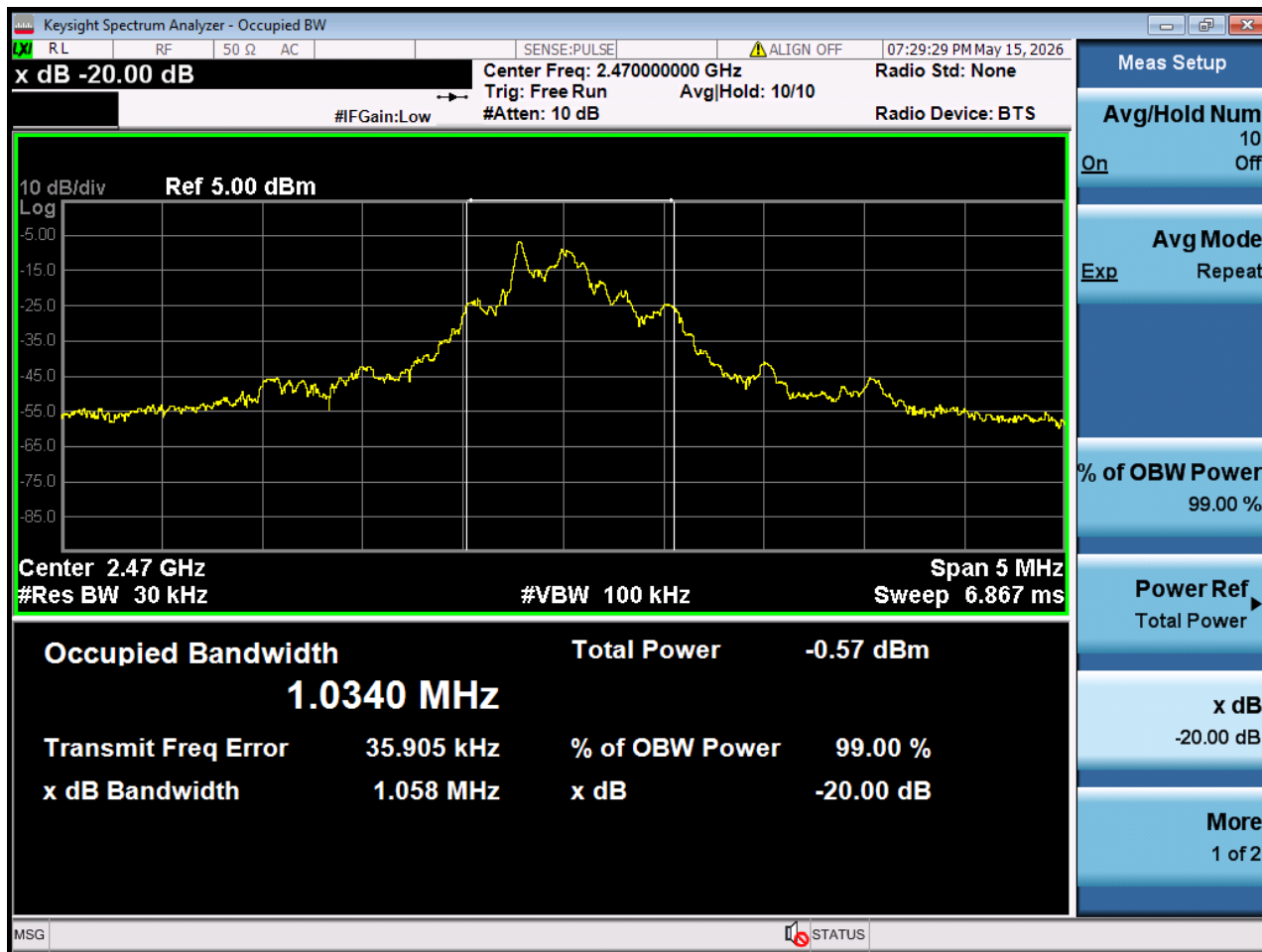
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2470MHz



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8 Test Setup Photo

Refer to Setup Photo for SZCR2605001970ET

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2605001970ET

- End of the Report -



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