

TEST REPORT

Application No.: FYCR2608000416AT
Applicant: Aifrotech Co.,LTD.
Address of Applicant: B301, ZI GUANG XIN XI GANG,13 LANG SHAN RD NAN SHAN QU, SHENZHEN, GUANG DONG PROVINCE, Shenzhen, China
Manufacturer: Aifrotech Co.,LTD.
Address of Manufacturer: Room 301, Block B, Tsinghua Unis inforport, Langshan Rd, Nanshan District, ShenZhen, Guangdong, China
Factory: ShenZhen KingChuang Tech&Electronic Co.,Ltd
Address of Factory: Building 7th, 58th Guang Tian Rd, Luo Tian Community, Yan Luo Street, Bao'an District, Shen Zhen, Guang Dong, PRC
Equipment Under Test (EUT):
EUT Name: EVOTOP
Model No.: ZKNS-015-BK, ZKNS-015-WH, ZKNS-015-GY, ZKNS-015-PK, ZKNS-015-YLW, ZKNS-015-RD, ZKNS-015-PL, ZKNS-015-GN, ZKNS-015-GLD, ZKNS-015-SR, ZKNS-015-RG, ZKNS-015-CR, ZKNS-015-Vermilio, ZKNS-015-KH, ZKNS-015BN, ZKNS-015-Rainbow, ZKNS-015-BU, ZKNS-015-ORG ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID: 2BW5UZKNS-015
Standard(s) : 47 CFR Part 15 Subpart F
47 CFR Part 15.519
Date of Receipt: 2026-08-11
Date of Test: 2026-08-21 to 2026-08-31
Date of Issue: 2026-09-03

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



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SZCCS-TRF-01 Rev. A/2

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-09-03		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart F	N/A	47 CFR Part 15F Section 15.517(a3), 15.519(a2), 15.521(b), 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
EIRP	47 CFR Part 15 Subpart F	ANSI C63.10-2020+Cor.1-2023 Section 10.3	47 CFR Part 15, Subpart F Section 15.519 (c)(e)	Pass
Spurious Emissions Below 1GHz		ANSI C63.10-2020+Cor.1-2023 Section 10.2 & 10.3	47 CFR Part 15, Subpart F Section 15.519 (c)(d), 15.209	Pass
Spurious Emissions Above 1GHz		ANSI C63.10-2020+Cor.1-2023 Section 10.3	47 CFR Part 15, Subpart F Section 15.519 (c)(d), 15.209	Pass
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10-2020+Cor.1-2023 Section 6.2	47 CFR Part 15, Subpart F 15.207, 15.505, 15.521(j),	Pass
Dwell Time		ANSI C63.10-2020+Cor.1-2023 Section 7.8.4	47 CFR Part 15F Section 15.519(a)(1)	Pass
UWB Bandwidth		ANSI C63.10-2020+Cor.1-2023 Section 10.1	47 CFR Part 15F Section 15.503(a)	Pass

Declaration of EUT Family Grouping:

Model No.: ZKNS-015-BK, ZKNS-015-WH, ZKNS-015-GY, ZKNS-015-PK, ZKNS-015-YLW, ZKNS-015-RD, ZKNS-015-PL, ZKNS-015-GN, ZKNS-015-GLD, ZKNS-015-SR, ZKNS-015-RG, ZKNS-015-CR, ZKNS-015-Vermilio, ZKNS-015-KH, ZKNS-015BN, ZKNS-015-Rainbow, ZKNS-015-BU, ZKNS-015-ORG

Only the model ZKNS-015-BK was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No. and color.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V by Adapter DC 3.7V by Battery
Modulation Type:	PM
Product Type:	Handheld
Operation Frequency:	7987.2MHz
Antenna Type:	PCB onboard antenna
Antenna Gain:	0.78dBi

Remark:The information in this section is provided by the applicant or manufacturer, CCS 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	JPN	CLV-003(JPN)	CLV-A-ADLL-JPN-C0

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
EIRP	$\pm 4.4\text{dB}$
Spurious Emissions Below 1GHz	$\pm 5.7\text{dB}$
Spurious Emissions Above 1GHz	$\pm 4.7\text{dB}$ (1-18GHz); $\pm 4.7\text{dB}$ (18-40GHz)
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.2\text{dB}$
Dwell Time	$\pm 0.27\%$
UWB Bandwidth	$\pm 0.27\%$

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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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

EIRP					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
Pre-amplifier	TST PASS	LNA180400G40	SEM005-39	2026/4/29	2027/4/28
Pre-amplifier	TST PASS	LNA10180G60	SEM005-32	2026/4/4	2027/4/3
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026/3/4	2027/3/3
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Loop Antenna	ETS-LINDGREN	6502	SEM003-43	2025/6/16	2027/6/15
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-26	2025/8/29	2027/8/28
MXE EMI receiver	Agilent	N9038A	SEM004-05	2026/7/03	2027/7/02
Pre-amplifier	HP	8447D	SEM005-02	2026/7/07	2027/7/06
Coaxial Cable	CCS	N/A	SEM035-01	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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Spurious Emissions Above 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2025/10/13	2028/10/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025/7/29	2027/7/28
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-54	2025/5/24	2027/5/23
Pre-amplifier	TST PASS	LNA180400G40	SEM005-39	2026/4/29	2027/4/28
Pre-amplifier	TST PASS	LNA10180G60	SEM005-32	2026/4/4	2027/4/3
Coaxial Cable	CCS	N/A	SEM035-02	2026/5/12	2027/5/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2026/2/5	2027/2/4
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2026/2/5	2027/2/4
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026/3/4	2027/3/3
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

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

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2025/10/13	2028/10/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2026/2/5	2027/2/4
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-24	2026/2/5	2027/2/4
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2026/2/5	2027/2/4
Coaxial Cable	CCS	N/A	SEM033-02	2026/5/12	2027/5/11
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

RF Conducted Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2026/2/3	2027/2/2
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026/2/2	2027/2/1
Coaxial Cable	CCS	N/A	SEM037-01	2026/5/12	2027/5/11
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A



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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-52	2026/7/8	2027/7/7
Humidity/ Temperature Indicator	deli	8838	SEM002-53	2026/7/8	2027/7/7
Barometer	DUMAI	DYM3	SEM002-24	2026/7/10	2027/7/9



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15F Section 15.517(a3), 15.519(a2), 15.521(b), 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of 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 0.78dBi.

Antenna location: Refer to internal photos



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7 Radio Spectrum Matter Test Results

7.1 EIRP

Test Requirement 47 CFR Part 15, Subpart F Section 15.519 (c)(e)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 10.3
 Test Engineer: Rex Liu

Limit:

Frequency	Limit	Detector	Measurement distance (m)
960MHz-1610MHz	-75.3 dBm (EIRP, RBW=1MHz)	RMS/AV	3
1610MHz-1990MHz	-63.3 dBm (EIRP, RBW=1MHz)	RMS/AV	3
1990MHz-3100MHz	-61.3 dBm (EIRP, RBW=1MHz)	RMS/AV	3
3100MHz-10600MHz	-41.3 dBm (EIRP, RBW=1MHz)	RMS/AV	3
Above 10600MHz	-61.3 dBm (EIRP, RBW=1MHz)	RMS/AV	3
Fundamental	0 dBm (EIRP, RBW=50MHz)	Peak	3

Remark: Due to some spectrum analyzer does not support 50MHz RBW setting, RBW set to the maximum value, and add a correction factor is allowed for Max Peak EIRP measurement.

RBW factor = $20 \times \log_{10}(10/50) = -13.98\text{dB}$

The correction factor of RBW was added in the test result.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.6 °C Humidity: 51.7 % RH Atmospheric Pressure: 1000 mbar



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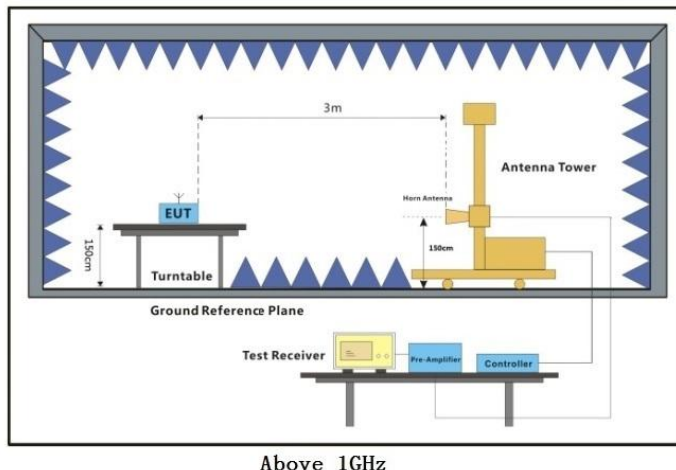
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7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

- 1) The EUT was placed on the top of a rotating table 1.5 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.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) 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.
- 4) 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to Peak detector with Maximum Hold Mode for Max Peak EIRP measurement and RMS/AV detector for Average EIRP measurement.
- 6) Test the EUT in the lowest channel, the middle channel, the Highest channel
- 7) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- 8) Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. $E \text{ (dBuV/m)} = \text{EIRP(dBm)} + 95.3$



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Test Mode: AV; Polarity: Horizontal

Average Field Strength for fundamental @ RBW=1MHz									
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7979.53	36.94	9.39	54.18	43.77	35.92	-59.38	-41.3	18.08	Horizontal

Test Mode: AV; Polarity: Vertical

Average Field Strength for fundamental @ RBW=1MHz									
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7972.53	36.95	9.39	54.17	44.4	36.57	-58.73	-41.3	-17.43	Vertical

Test Mode: PK; Polarity: Horizontal

Peak Field Strength for fundamental @ RBW=10MHz						
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (FS _M) (dBuV/m)	Polarization
7958.55	36.98	9.39	54.16	65.74	57.95	Horizontal
Calculated Peak Field Strength of fundamental @ RBW=50MHz						
Frequency (MHz)	EIRP (FS _M) (dBm)	Correction Factor (dB)	EIRP (FS _C) (dBm)	Limit (dBm)	Margin (dB)	Polarization
7958.55	-37.35	13.98	-23.37	0	-23.37	Horizontal
Note: FS _C = FS _M - 20log(10MHz/50MHz) = FS _M + 13.98						

Test Mode: PK; Polarity: Vertical

Peak Field Strength for fundamental @ RBW=10MHz						
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (FS _M) (dBuV/m)	Polarization
7952.57	36.99	9.38	54.16	66.8	59.01	Vertical
Calculated Peak Field Strength of fundamental @ RBW=50MHz						
Frequency (MHz)	EIRP (FS _M) (dBm)	Correction Factor (dB)	EIRP (FS _C) (dBm)	Limit (dBm)	Margin (dB)	Polarization
7952.57	-36.29	13.98	-22.31	0	-22.31	Vertical
Note: FS _C = FS _M - 20log(10MHz/50MHz) = FS _M + 13.98						



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7.2 Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart F Section 15.519 (c)(d),15.209

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 10.2 & 10.3

Measurement Distance: 3m

Test Engineer: Rex Liu

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 50.6 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Continuous Tx Mode: Keep the EUT Transmitting with Modulation



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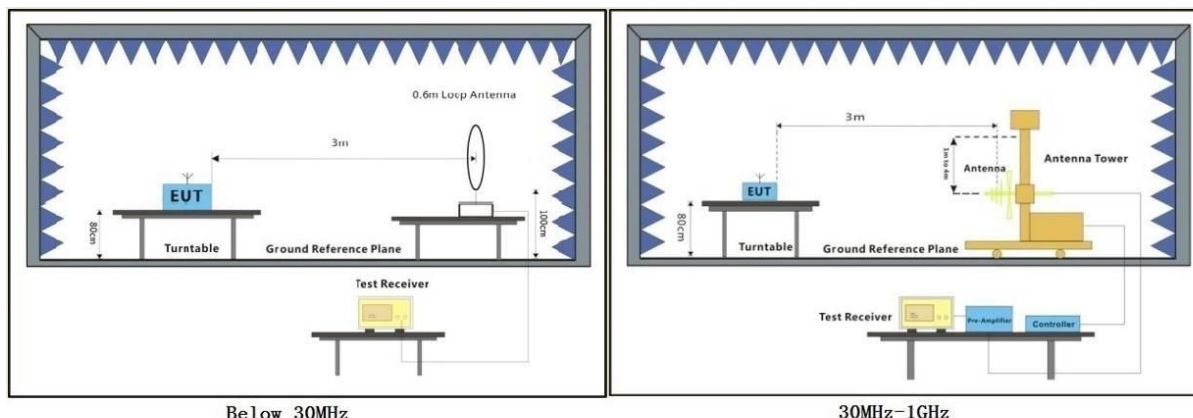
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- 1) 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.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) 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.
- 4) 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.
- 5) The test-receiver system was set to Peak detector with Maximum Hold Mode. And use Quasi-Peak to measure the six highest frequencies.
- 6) Test the EUT in the lowest channel, the middle channel, the Highest channel and only recorded worst channel--Lowest channel in the test report.
- 7) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- 8) Repeat above procedures until all frequencies measured was complete

Remark:

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

The aux factor needs to be added for the frequency below 30MHz once a closer distance used.

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

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. 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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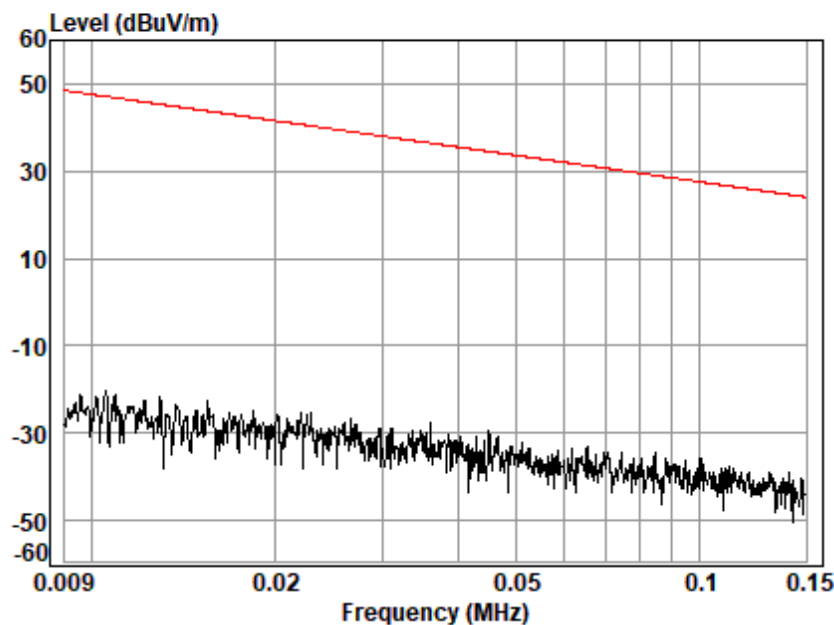
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Test Mode: 05



Site : chamber
Condition: 3m
Job No. : 00416AT
Test Mode: 05
 : coaxial



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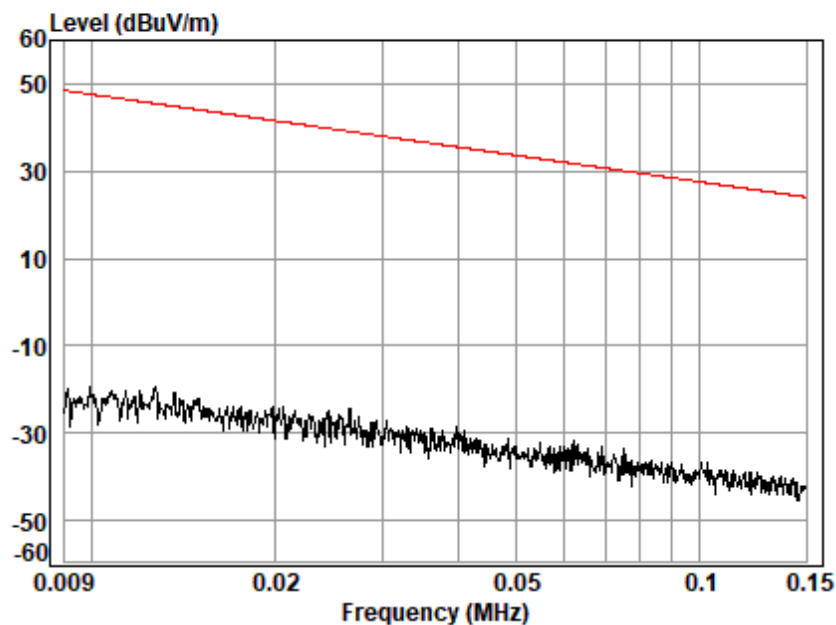
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Test Mode: 05



Site : chamber
Condition: 3m
Job No. : 00416AT
Test Mode: 05
: coplanar



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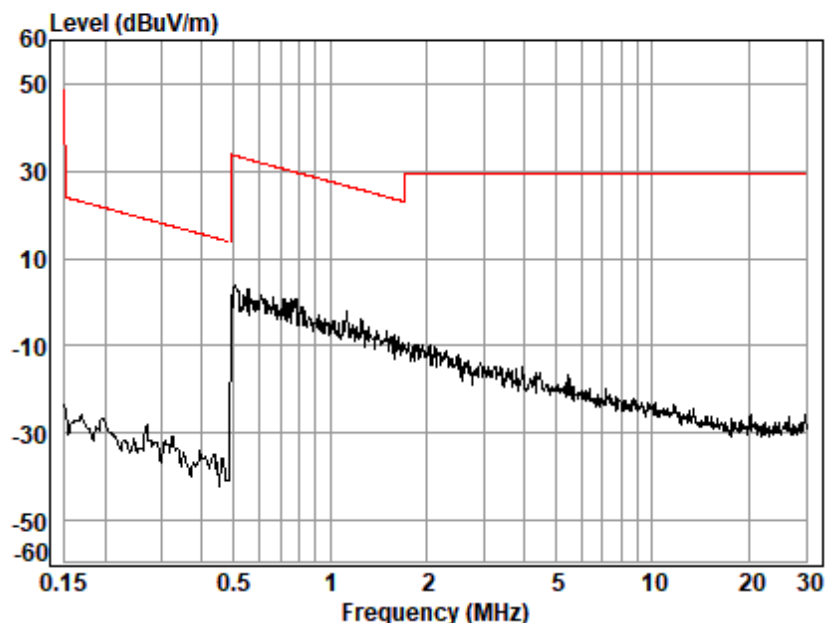
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Test Mode: 05



Site : chamber
Condition: 3m
Job No. : 00416AT
Test Mode: 05
 : coaxial



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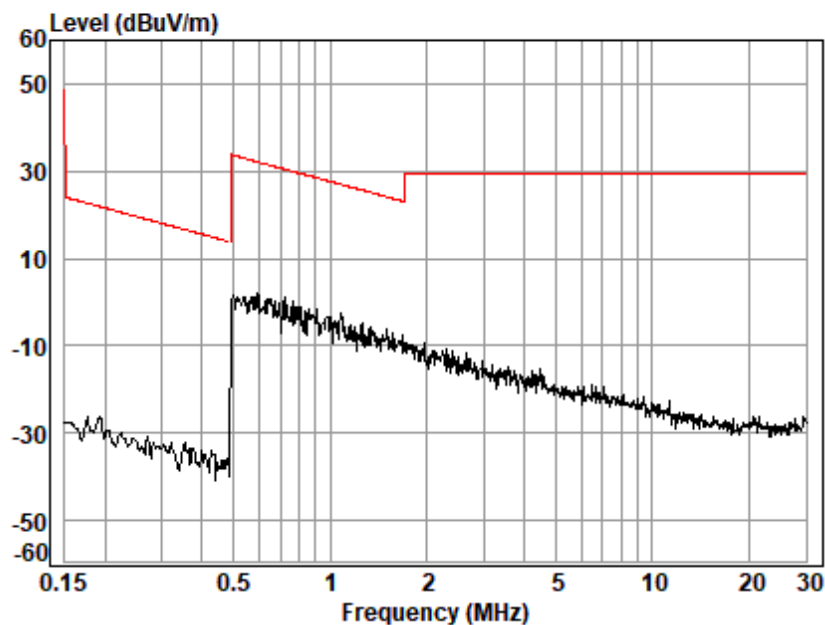
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Test Mode: 05



Site : chamber
Condition: 3m
Job No. : 00416AT
Test Mode: 05
 : coplanar



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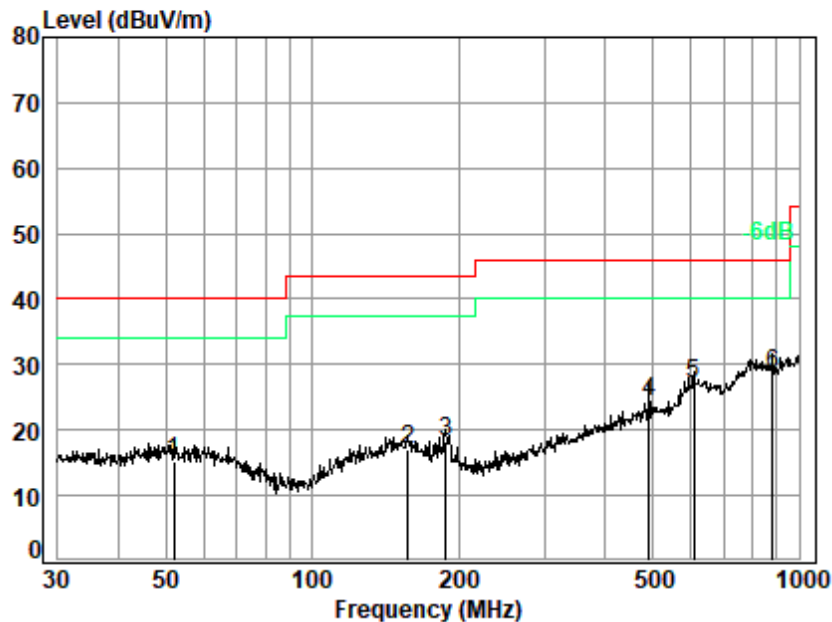
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Test Mode: 05



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00416AT/00417AT

Mode : 05

		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	52.025	17.77	0.60	26.10	22.92	15.19	40.00	-24.81	QP
2	157.007	17.45	1.24	25.61	23.95	17.03	43.50	-26.47	QP
3	188.413	14.72	0.90	25.50	28.01	18.13	43.50	-25.37	QP
4	492.469	21.67	1.39	26.56	27.74	24.24	46.00	-21.76	QP
5	607.787	24.21	3.40	26.56	25.93	26.98	46.00	-19.02	QP
6	881.407	27.06	2.28	26.41	25.75	28.68	46.00	-17.32	QP



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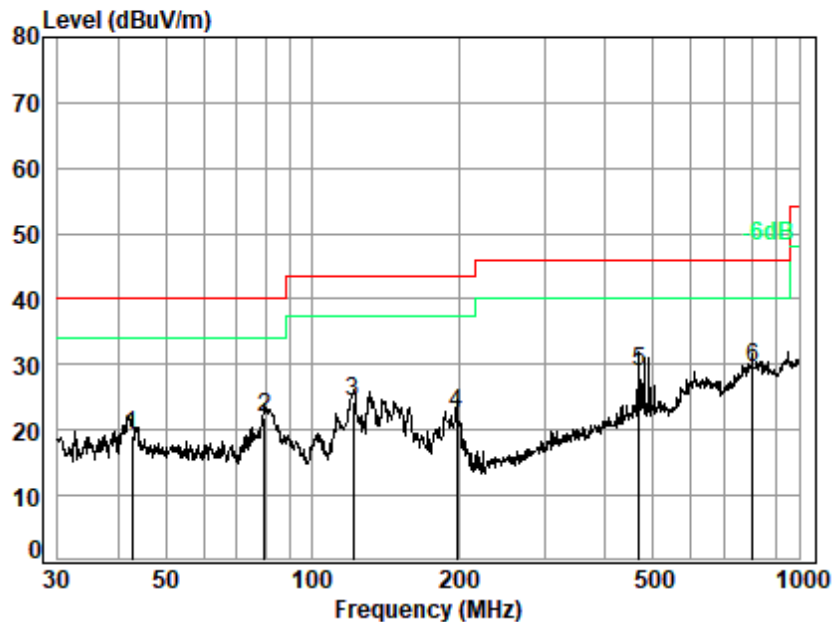
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Test Mode: 05



Site : chamber

Condition: 3m VERTICAL

Job No : 00416AT/00417AT

Mode : 05

		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	42.600	17.48	0.42	26.11	27.40	19.19	40.00	-20.81 QP
2	79.800	13.21	0.71	26.10	34.10	21.92	40.00	-18.08 QP
3	121.549	15.27	1.42	25.78	33.32	24.23	43.50	-19.27 QP
4	197.893	13.96	1.22	25.47	32.80	22.51	43.50	-20.99 QP
5	468.876	21.34	1.15	26.42	32.73	28.80	46.00	-17.20 QP
6	801.786	26.86	3.45	26.50	25.73	29.54	46.00	-16.46 QP



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7.3 Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart F Section 15.519 (c)(d),15.209

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 10.3

Measurement Distance: 0.5m

Test Engineer: Rex Liu

Limit:

Frequency	Field strength (dBm)	Limit (dBuV/m)	RBW	Detector	Measurement distance (m)
960MHz-1610MHz	-75.3	20.0	1MHz	RMS/AV	3
1610MHz-1990MHz	-63.3	32.0	1MHz	RMS/AV	3
1990MHz-3100MHz	-61.3	34.0	1MHz	RMS/AV	3
3100MHz-10600MHz	-41.3	54.0	1MHz	RMS/AV	3
Above 10600MHz	-61.3	34.0	1MHz	RMS/AV	3
1164MHz-1240MHz	-85.3	10.0	1KHz	RMS/AV	3
1559MHz-1610MHz	-85.3	10.0	1KHz	RMS/AV	3

E (dBuV/m) = EIRP(dBm) + 95.3

Frequency	Measurement Distance
960MHz-1610MHz	0.5
1610MHz-1990MHz	0.5
1990MHz-3100MHz	0.5
3100MHz-10600MHz	0.5
Above 10600MHz	0.5
1164MHz-1240MHz	0.5
1559MHz-1610MHz	0.5

Distance factor = $20 \cdot \log_{10}(0.5/3) = -15.56\text{dB}$

The correction factor of distance was added in the test result.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.3 °C

Humidity: 51.4 % RH

Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Continuous Tx Mode: Keep the EUT Transmitting with Modulation



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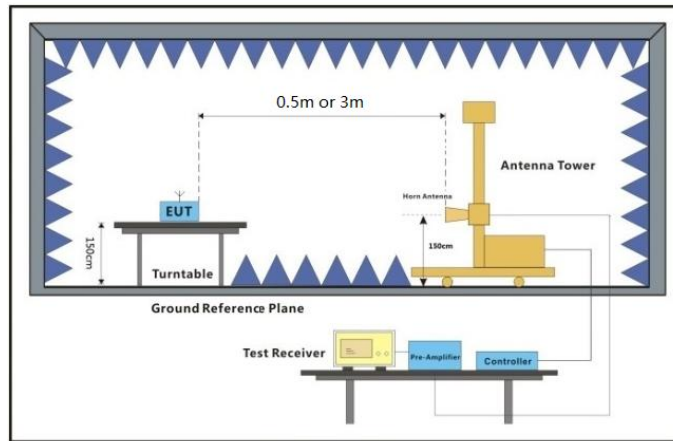
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7.3.3 Test Setup Diagram



Above 1GHz



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7.3.4 Measurement Procedure and Data

- 1) The EUT was placed on the top of a rotating table 1.5 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.
- 2) The EUT was set 0.5 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) 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.
- 4) 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to Peak detector with Maximum Hold Mode.
- 6) Test the EUT in the lowest channel, the middle channel, the Highest channel
- 7) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- 8) Repeat above procedures until all frequencies measured was complete

Remark:

1. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - (\text{Preamplifier Factor} - \text{Distance factor}) + \text{Aux Factor}$, Aux Factor = -15.56dB (for 0.5 meter test distance).
2. Scan from 960MHz to 40GHz, the disturbance below 1GHz 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. The emission data above 1GHz are employing an average detector.

Note: If the peak detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.



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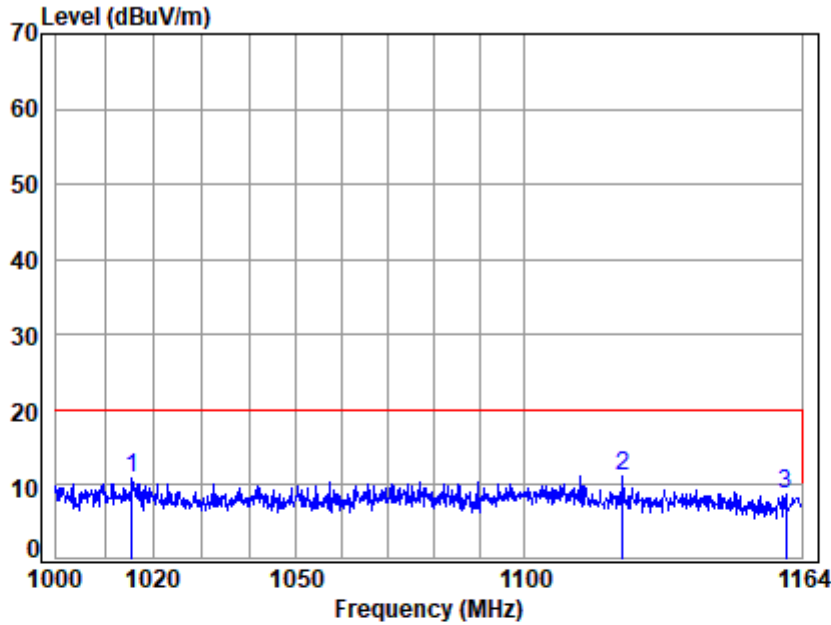
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Test Mode: 05; Polarity: Horizontal



Condition: HORIZONTAL

Job No : 00416AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1015.456	2.86	25.03	53.21	36.23	10.91	20.00	-9.09	Peak
2	pp 1122.340	3.32	25.18	53.25	35.87	11.12	20.00	-8.88	Peak
3	1160.294	3.47	24.93	53.26	33.63	8.77	20.00	-11.23	Peak



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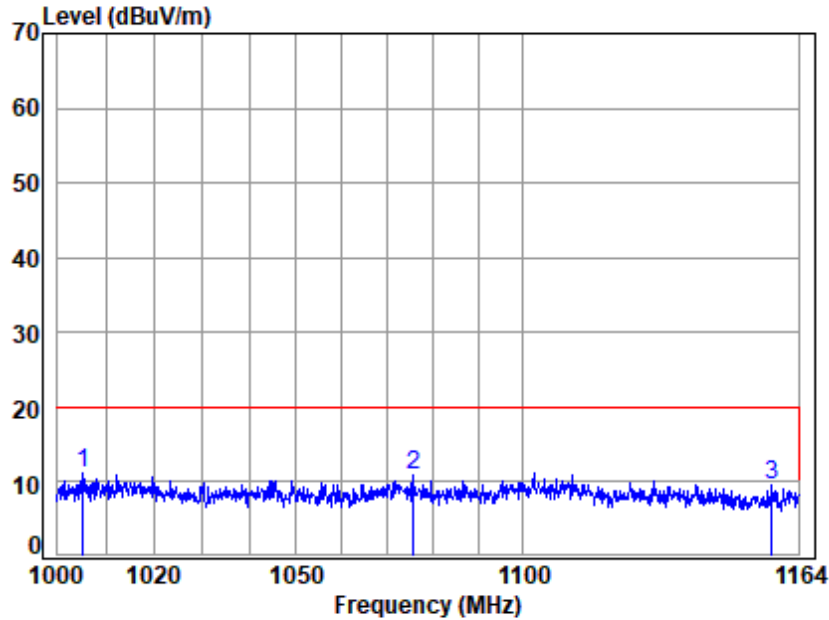
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Test Mode: 05; Polarity: Vertical



Condition: VERTICAL

Job No : 00416AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	1005.329	2.81	25.01	53.20	36.67	11.29	20.00	-8.71	Peak
2	1075.616	3.12	25.31	53.23	35.59	10.79	20.00	-9.21	Peak
3	1157.654	3.46	24.89	53.26	34.44	9.53	20.00	-10.47	Peak



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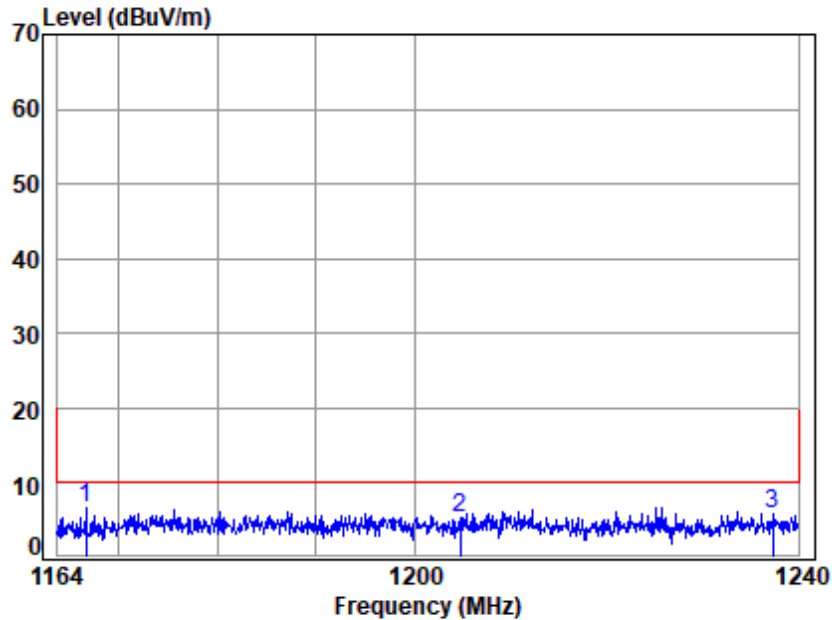
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SZCCS-TRF-01 Rev. A/2

Report No.:FYCR260800041604

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Test Mode: 05; Polarity: Horizontal



Condition: HORIZONTAL

Job No : 00416AT

Mode : RSE TX

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 1166.801	3.50	25.00	53.27	31.50	6.73	10.00	-3.27 Peak
2	1204.671	3.64	25.39	53.28	29.70	5.45	10.00	-4.55 Peak
3	1237.258	3.77	25.33	53.29	30.10	5.91	10.00	-4.09 Peak



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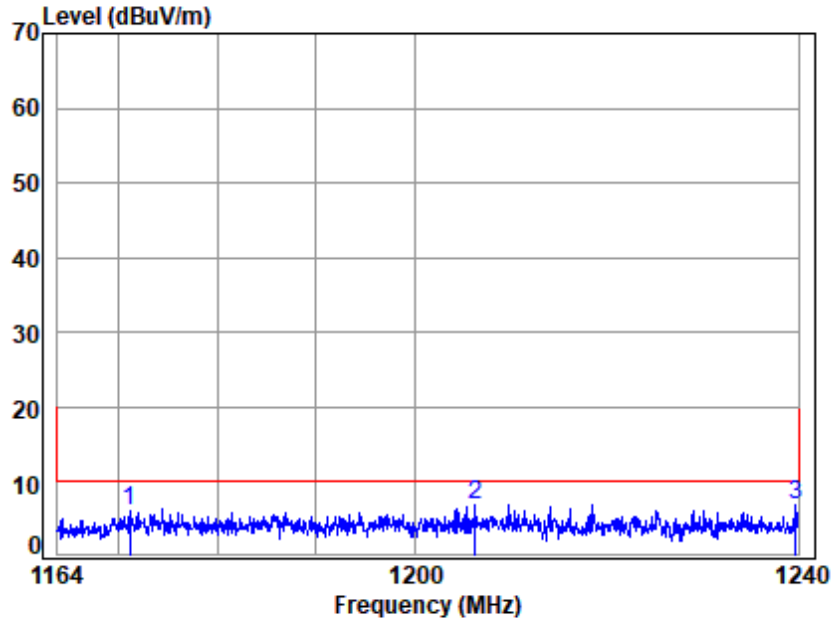
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Report No.:FYCR260800041604

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Test Mode: 05; Polarity: Vertical



Condition: VERTICAL

Job No : 00416AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1171.163	3.51	25.06	53.27	30.86	6.16	10.00	-3.84	Peak
2	1206.272	3.65	25.39	53.28	31.10	6.86	10.00	-3.14	Peak
3 pp	1239.765	3.78	25.32	53.29	31.08	6.89	10.00	-3.11	Peak



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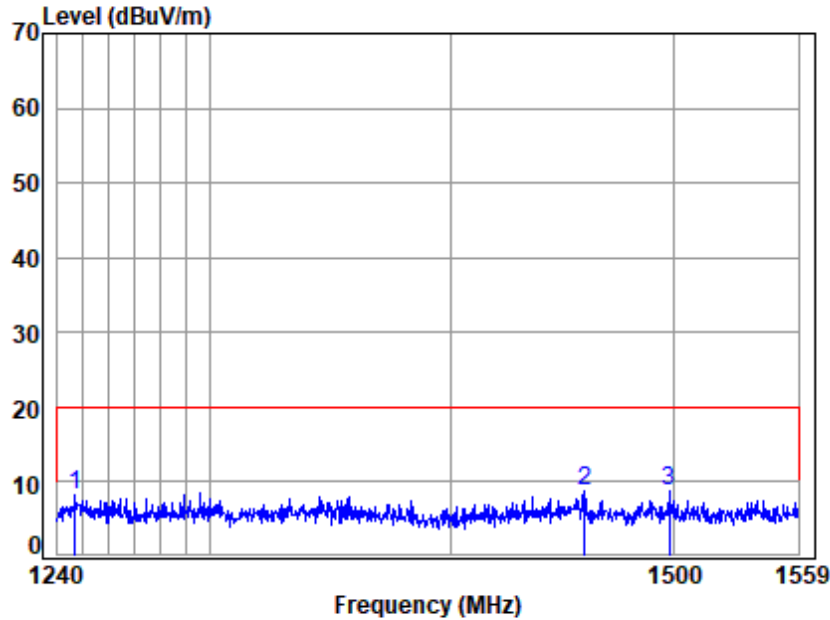
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Test Mode: 05; Polarity: Horizontal



Condition: HORIZONTAL

Job No : 00416AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1246.832	3.80	25.31	53.30	32.45	8.26	20.00	-11.74	Peak
2	1459.526	4.52	25.34	53.36	32.28	8.78	20.00	-11.22	Peak
3 pp	1498.119	4.64	25.49	53.37	32.11	8.87	20.00	-11.13	Peak



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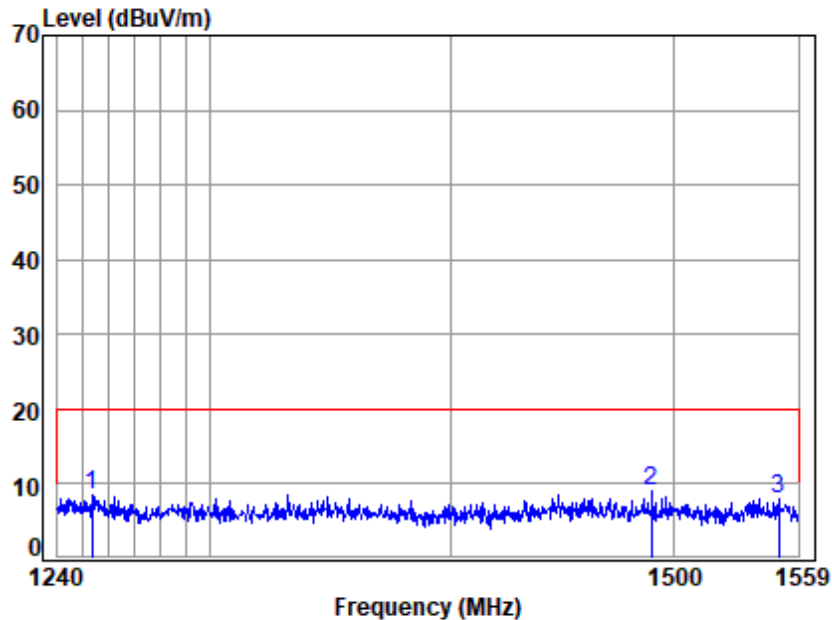
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Test Mode: 05; Polarity: Vertical



Condition: VERTICAL

Job No : 00416AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1253.414	3.83	25.28	53.30	32.68	8.49	20.00	-11.51	Peak
2	pp 1489.910	4.62	25.46	53.37	32.35	9.06	20.00	-10.94	Peak
3	1549.393	4.90	25.10	53.39	31.35	7.96	20.00	-12.04	Peak



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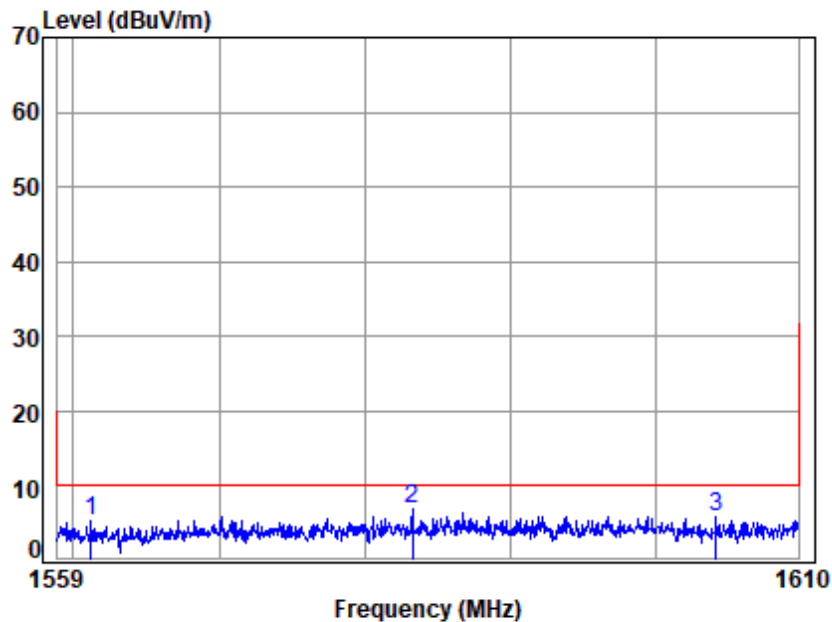
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Test Mode: 05; Polarity: Horizontal



Condition: HORIZONTAL

Job No : 00416AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1561.260	4.96	25.10	53.39	28.68	5.35	10.00	-4.65	Peak
2	pp 1583.224	5.07	25.10	53.40	30.16	6.93	10.00	-3.07	Peak
3	1604.258	5.17	25.08	53.40	29.11	5.96	10.00	-4.04	Peak



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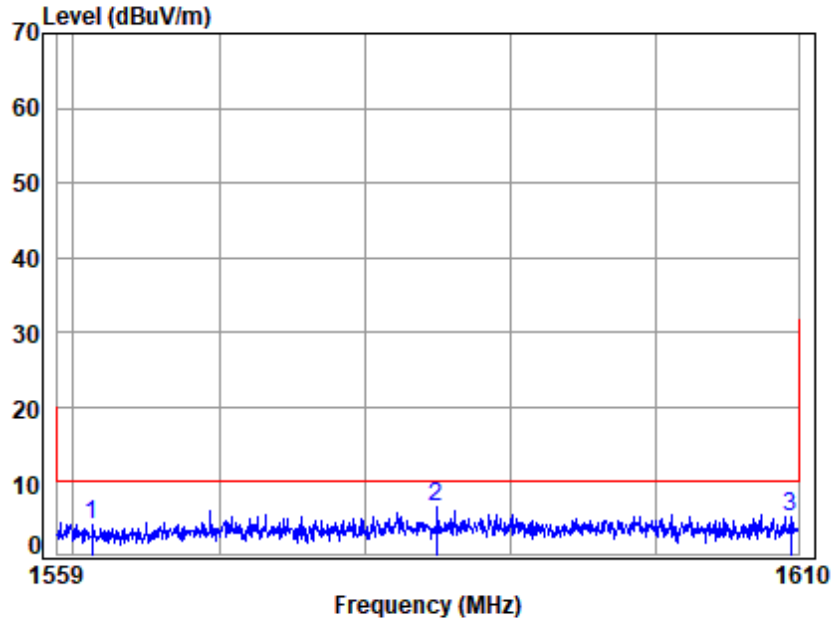
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Test Mode: 05; Polarity: Vertical



Condition: VERTICAL

Job No : 00416AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1561.360	4.96	25.10	53.39	27.71	4.38	10.00	-5.62	Peak
2	pp 1584.907	5.08	25.10	53.40	29.88	6.66	10.00	-3.34	Peak
3	1609.482	5.20	25.06	53.41	28.61	5.46	10.00	-4.54	Peak



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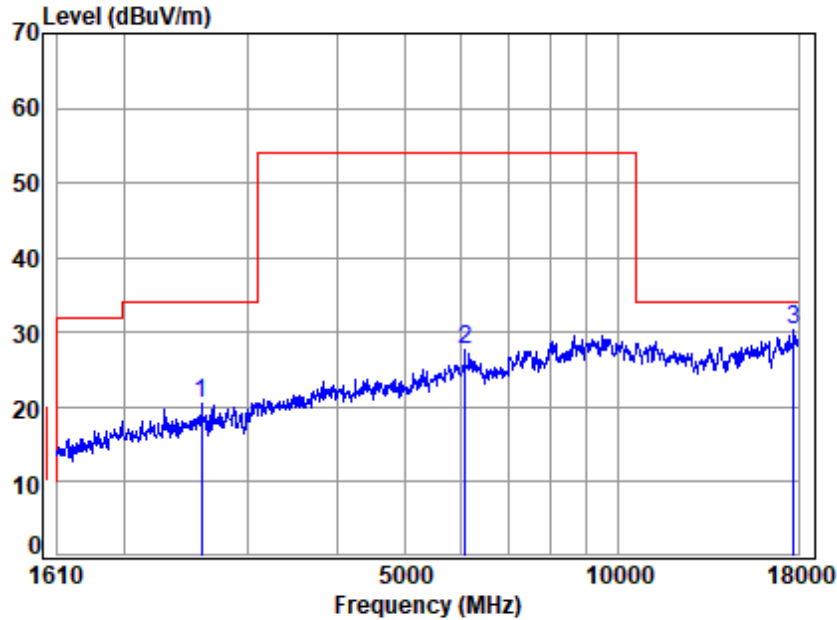
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Test Mode: 05; Polarity: Horizontal



Condition: HORIZONTAL

Job No : 00416AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2571.725	7.12	28.01	53.13	38.48	20.48	34.00	-13.52	Peak
2	6073.954	8.31	33.74	53.29	38.98	27.74	54.00	-26.26	Peak
3	pp17741.150	14.46	40.14	51.55	27.20	30.25	34.00	-3.75	Peak



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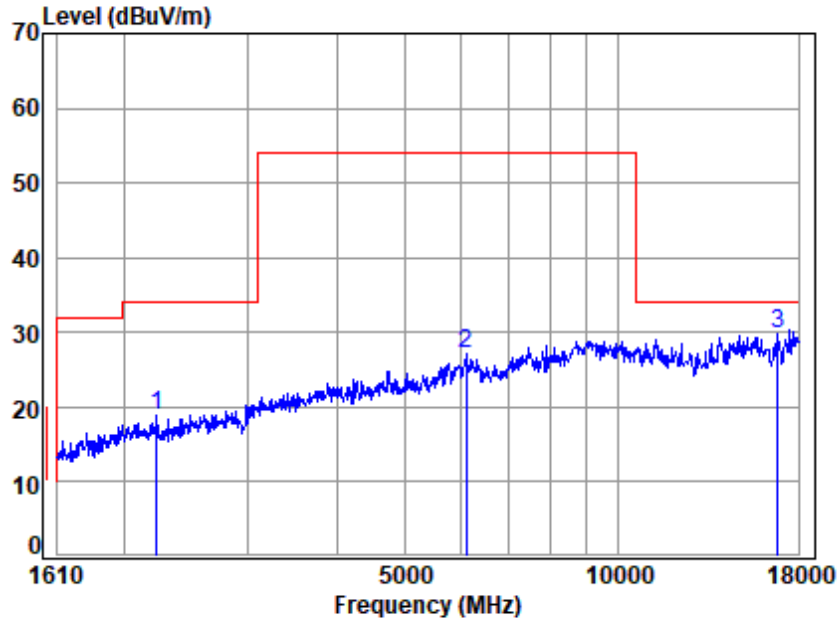
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Test Mode: 05; Polarity: Vertical



Condition: VERTICAL

Job No : 00416AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2224.937	6.98	27.40	53.34	37.93	18.97	34.00	-15.03	Peak
2	6103.352	8.34	34.00	53.29	38.09	27.14	54.00	-26.86	Peak
3	pp16823.490	14.71	38.75	51.91	28.34	29.89	34.00	-4.11	Peak



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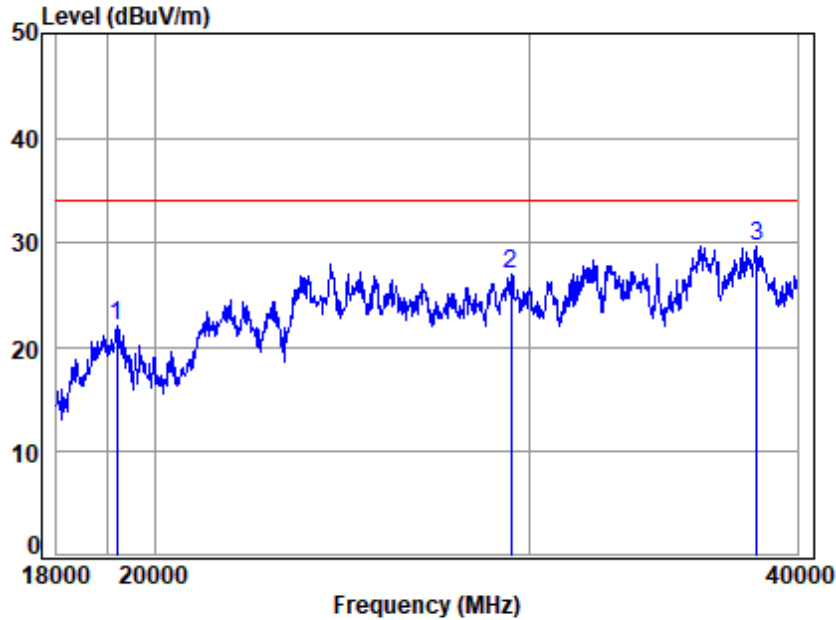
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Test Mode: 05; Polarity: Horizontal



Condition: HORIZONTAL

Job No : 00416AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	19202.700	8.76	37.84	47.98	33.00	22.08	34.00	-11.92	Peak
2	29366.570	10.85	39.49	45.05	31.29	27.04	34.00	-6.96	Peak
3	pp38281.300	12.67	42.37	46.87	31.01	29.64	34.00	-4.36	Peak



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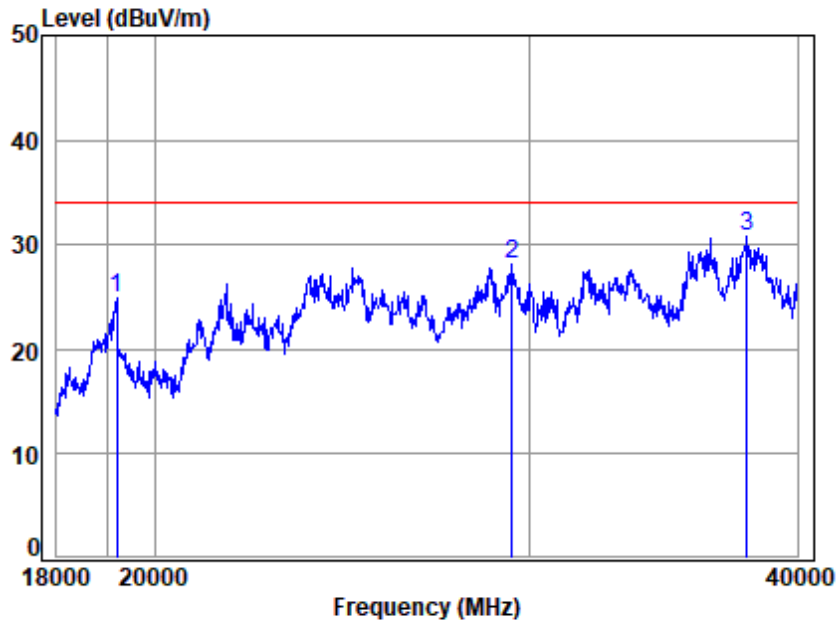
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Report No.:FYCR260800041604

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Test Mode: 05; Polarity: Vertical



Condition: VERTICAL

Job No : 00416AT

Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	19218.040	8.75	37.86	47.99	35.74	24.82	34.00	-9.18	Peak
2	29413.510	10.80	39.53	45.03	32.36	28.12	34.00	-5.88	Peak
3	pp37885.970	12.83	42.45	46.76	31.87	30.85	34.00	-3.15	Peak



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

Test Requirement 47 CFR Part 15, Subpart F 15.207, 15.505, 15.521(j),

Test Method: ANSI C63.10-2020+Cor.1-2023 Section 6.2

Test Engineer: Fly Yan

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

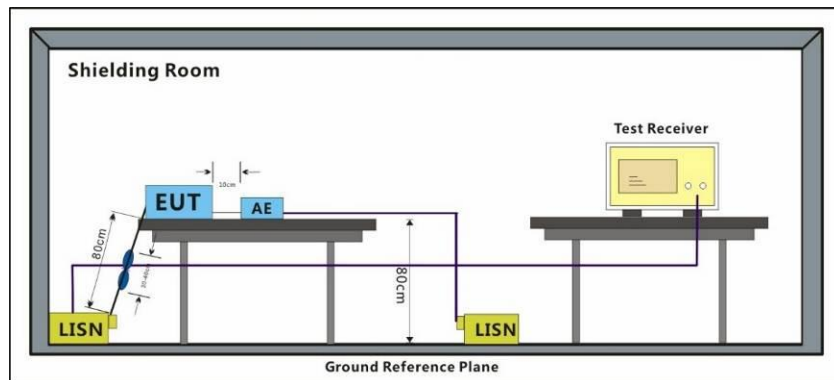
Humidity: 48.3 % RH

Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Continuous Tx Mode: Keep the EUT Transmitting with Modulation

7.4.3 Test Setup Diagram



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7.4.4 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 + 5ohm 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: LISN=Read Level+ Cable Loss+ LISN Factor



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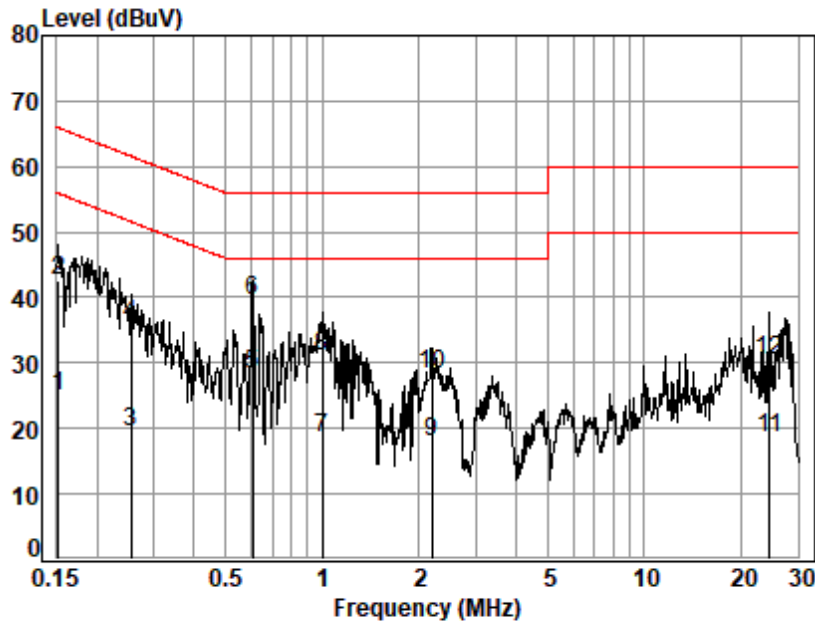
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Test Mode: 05; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00416AT
Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1516	0.02	9.82	15.09	24.93	55.91	-30.98	Average
2	0.1516	0.02	9.82	32.82	42.66	65.91	-23.25	QP
3	0.2548	0.03	9.76	9.78	19.57	51.60	-32.03	Average
4	0.2548	0.03	9.76	25.97	35.76	61.60	-25.84	QP
5	0.6075	0.05	9.84	18.43	28.32	46.00	-17.68	Average
6	0.6075	0.05	9.84	29.63	39.52	56.00	-16.48	QP
7	0.9997	0.04	9.73	8.86	18.63	46.00	-27.37	Average
8	0.9997	0.04	9.73	21.21	30.98	56.00	-25.02	QP
9	2.1898	0.04	9.83	8.14	18.01	46.00	-27.99	Average
10	2.1898	0.04	9.83	18.30	28.17	56.00	-27.83	QP
11	24.5291	0.07	9.78	8.85	18.70	50.00	-31.30	Average
12	24.5291	0.07	9.78	20.46	30.31	60.00	-29.69	QP



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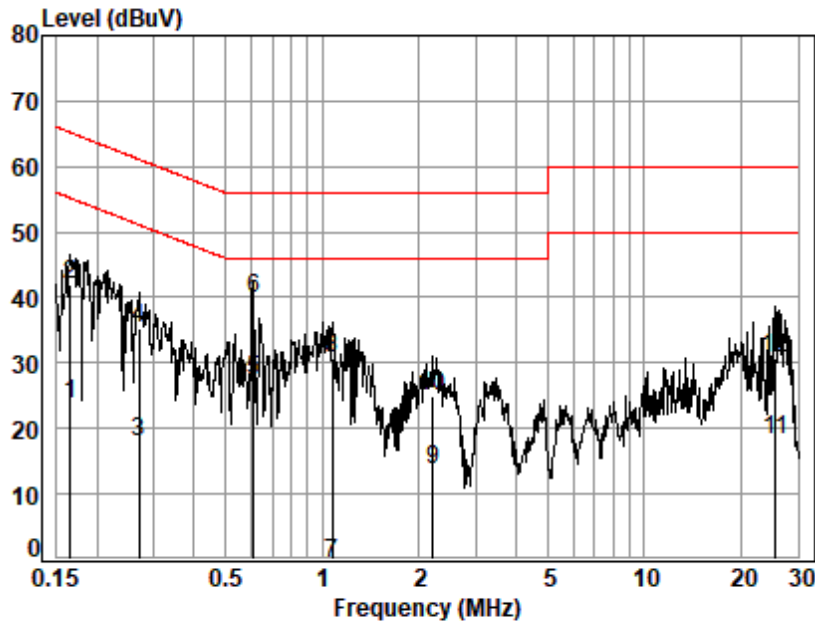
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Test Mode: 05; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00416AT
Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1650	0.02	9.78	14.05	23.85	55.21	-31.36	Average
2	0.1650	0.02	9.78	32.25	42.05	65.21	-23.16	QP
3	0.2701	0.03	9.58	8.24	17.85	51.12	-33.27	Average
4	0.2701	0.03	9.58	25.54	35.15	61.12	-25.97	QP
5	0.6108	0.05	9.74	17.72	27.51	46.00	-18.49	Average
6	0.6108	0.05	9.74	30.09	39.88	56.00	-16.12	QP
7	1.0767	0.04	9.73	-10.30	-0.53	46.00	-46.53	Average
8	1.0767	0.04	9.73	20.87	30.64	56.00	-25.36	QP
9	2.2015	0.04	9.78	3.80	13.62	46.00	-32.38	Average
10	2.2015	0.04	9.78	14.98	24.80	56.00	-31.20	QP
11	25.5912	0.07	9.72	8.42	18.21	50.00	-31.79	Average
12	25.5912	0.07	9.72	20.81	30.60	60.00	-29.40	QP



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7.5 Dwell Time

Test Requirement 47 CFR Part 15F Section 15.519(a)(1)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 7.8.4
 Test Engineer: Ian Li

Limit:

The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received, other than periodic signals

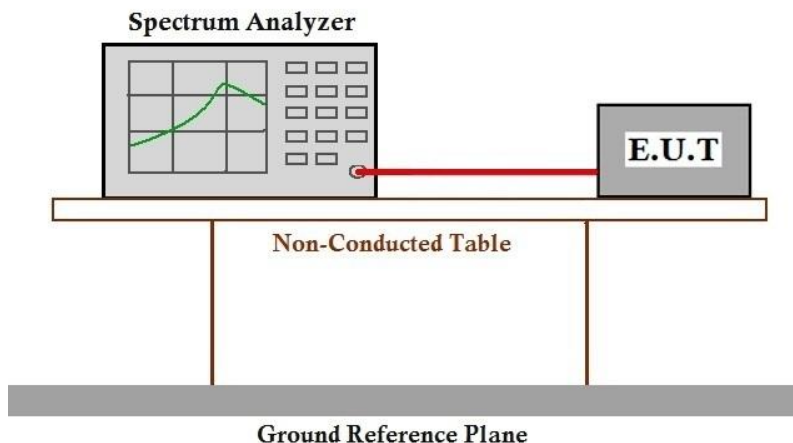
7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 25.0 °C Humidity: 42.0 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Normal Operating Mode: Keep the EUT Paring with Other Device and Operating Normally

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data



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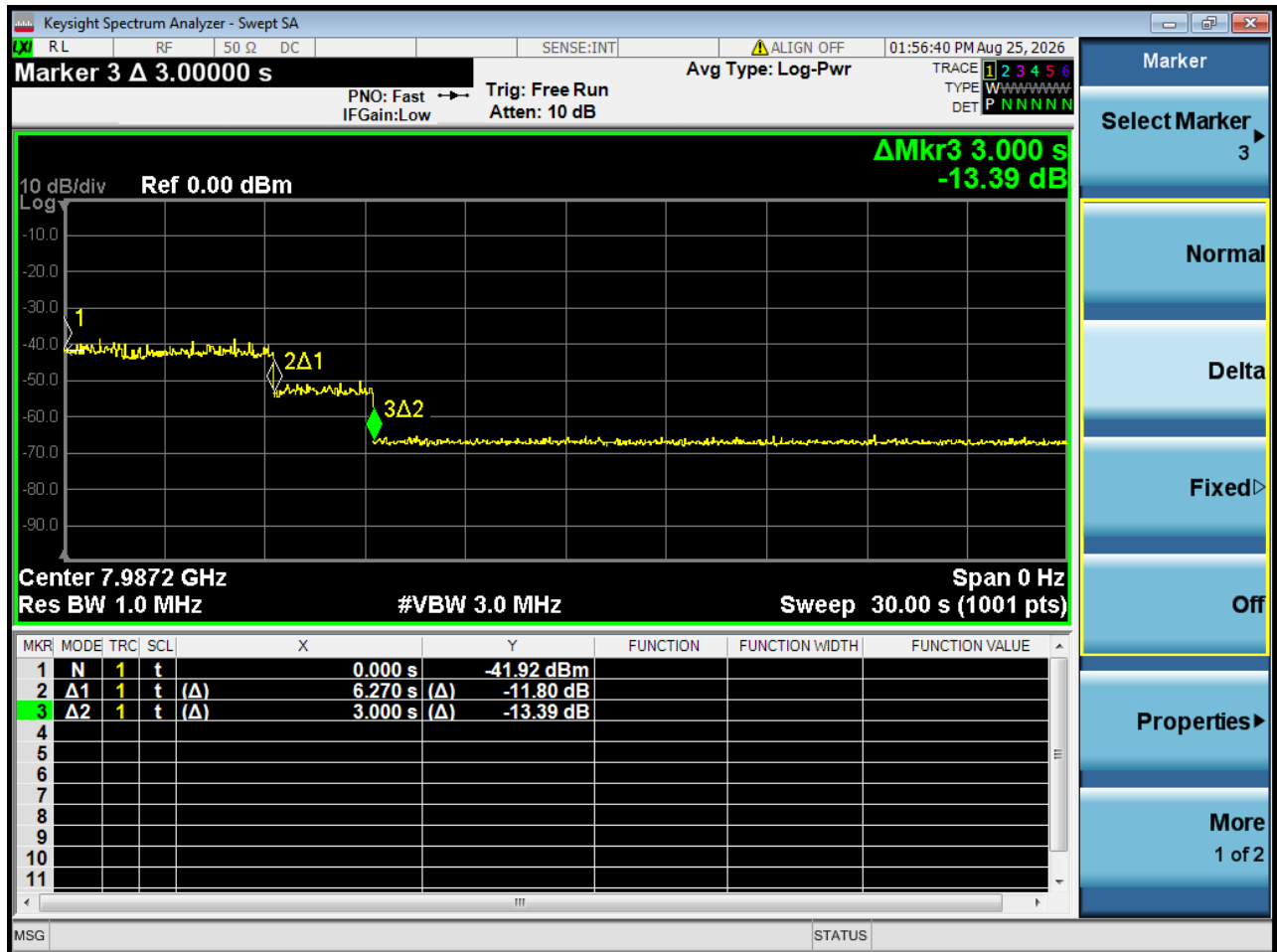
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FREQUENCY (MHz)	MEASUREMENT RESULT (sec)	MAXIMUM LIMIT (sec)	PASS/FAIL
7987.2	3	10	PASS



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7.6 UWB Bandwidth

Test Requirement 47 CFR Part 15F Section 15.503(a), 47 CFR 15.519(b)
 Test Method: ANSI C63.10-2020+Cor.1-2023 Section 10.1
 Test Engineer: Ian Li
 Limit: $\geq 500\text{MHz}$

The UWB bandwidth of a device operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz

7.6.1 E.U.T. Operation

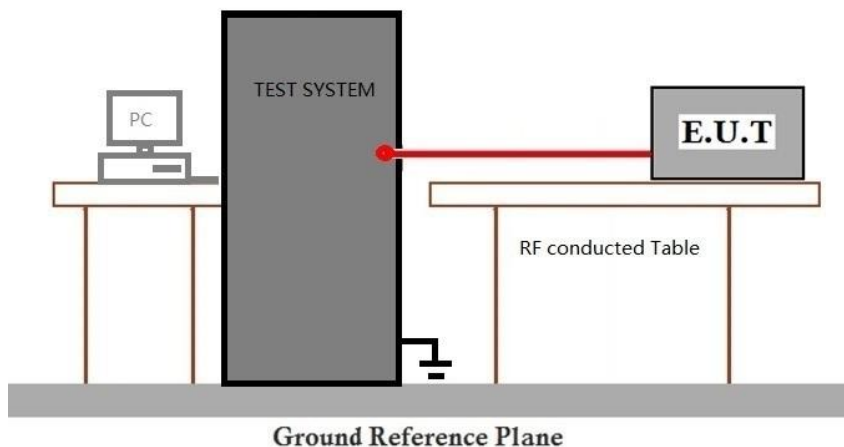
Operating Environment:

Temperature: 25.0 °C Humidity: 41.8 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Continuous Tx Mode: Keep the EUT Transmitting with Modulation

7.6.3 Test Setup Diagram



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7.6.4 Measurement Procedure and Data

The frequency at which the maximum power level is measured with the peak detector is designated fM. The peak power measurements shall be made using a spectrum analyzer or EMI receiver with a 1 MHz resolution bandwidth and a video bandwidth of 1 MHz or greater. The instrument shall be set to peak detection using the maximum-hold trace mode. The outermost 1 MHz segments above and below fM, where the peak power falls by 10 dB relative to the level at fM, are designated as fH and fL, respectively:

- a) For the lowest frequency bound fL, the emission is searched from a frequency lower than fM that has, by inspection, a peak power much lower than 10 dB less than the power at fM and increased toward fM until the peak power indicates 10 dB less than the power at fM. The frequency of that segment is recorded.
- b) This process is repeated for the highest frequency bound fH, beginning at a frequency higher than fM that has, by inspection, a peak power much lower than 10 dB below the power at fM. The frequency of that segment is recorded.
- c) The two recorded frequencies represent the highest fH and lowest fL bounds of the UWB transmission, and the 10 dB bandwidth (B - 10) is defined as (fH - fL). The center frequency (fc) is mathematically determined from $(fH - fL) / 2$.
- d) The fractional bandwidth is defined as $2(fH - fL) / (fH + fL)$.
- e) Determine whether the -10 dB bandwidth (fH - fL) is ≥ 500 MHz, or whether the fractional bandwidth $2(fH - fL) / (fH + fL)$ is ≥ 0.2 .
- f) The UWB bandwidth of a device operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.



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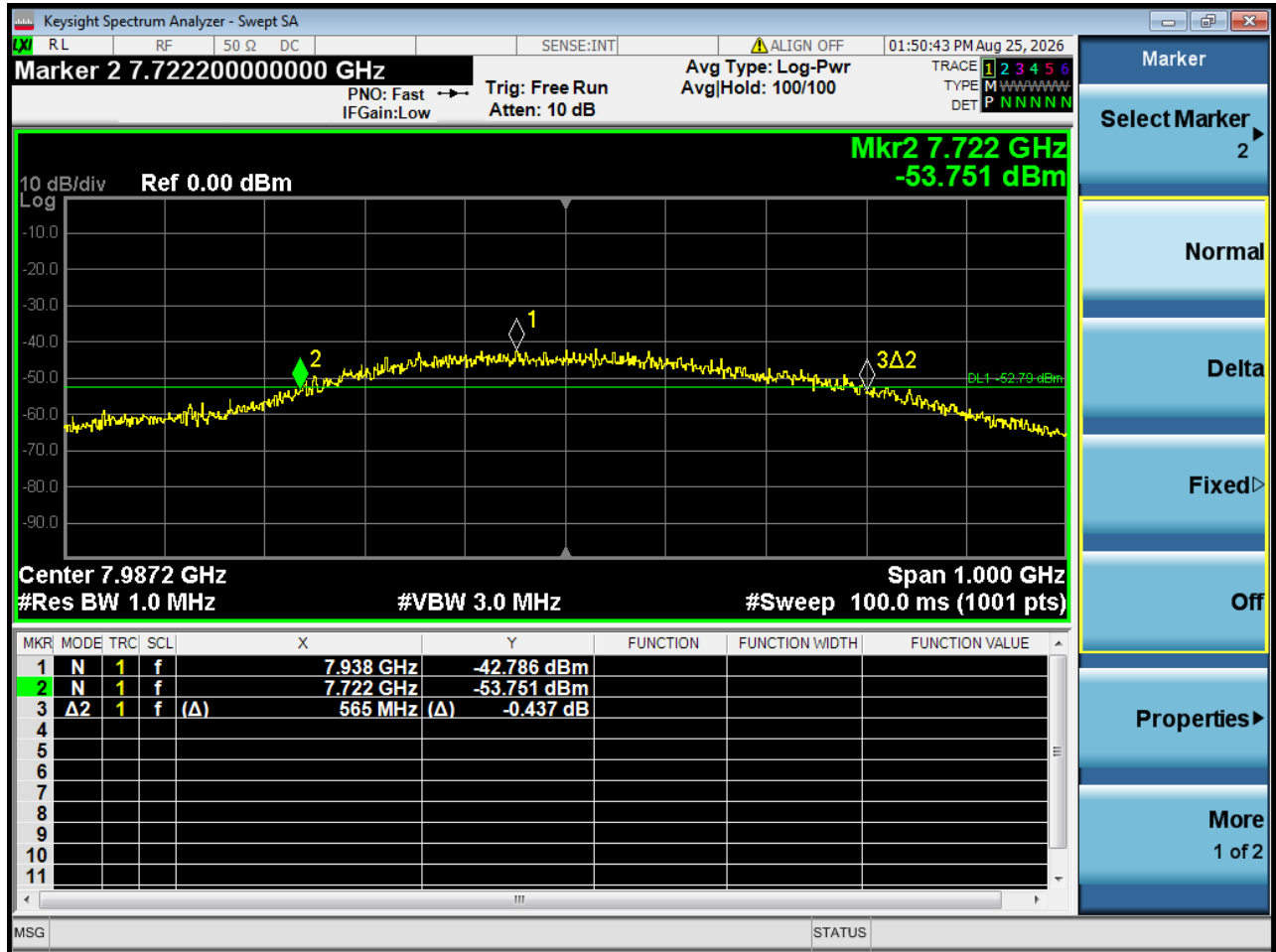
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Test Mode: 7987.2MHz



Frequency(MHz)	Measured Frequencies		10dB Bandwidth (MHz)	Limit (MHz)	Pass/Fail
	FL (MHz)	FH (MHz)			
7987.2	7722	8287	565	FL > 3100 and FH < 10600	Pass



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2608000416AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2608000416AT

- End of the Report -



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