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### TEST REPORT

Application No.:	SZEM1708008053CR
Applicant:	LidI US LLC.
Address of Applicant:	3500S. Clark St., Arlington, VA 22202
Manufacturer:	Wintop Electronics Co. Limited
Address of Manufacturer:	Unit 04 7/F ,Bright Way Tower 33, Mong Kok RD KL,HONGKONG
Factory:	Shenzhen Wintop Electronics Co. Limited
Address of Factory:	2,3,4 floor HuaGuan Industrial Park, 46th Xinhe Road, Baolai Industrial District, Shangmugu, Pinghu Town, Longgang District, Shenzhen City, 518000, China.
Equipment Under Test (EU)	Γ):
EUT Name:	Wireless Mouse
Model No.:	SFMT 2.4 A1
FCC ID:	2AJ9O-SFMT24A1
Trade mark:	SILVERCREST
Standards:	47 CFR Part 15, Subpart C 15.249
Date of Receipt:	2017-08-01
Date of Test:	2017-08-04 to 2017-08-15
Date of Issue:	2017-08-18
Test Result :	Pass*

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



#### Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2017-08-18		Original		

Authorized for issue by:		
	(eo ti	
	Leo Li /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	Customer Declaration		

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	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))	47 CFR Part 15, Subpart C 15.249	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 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass	
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass	



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### 4 General Information

### 4.1 Details of E.U.T.

Power supply:	3.0V DC (1.5Vx2"AAA" Size Batteries)
Test voltage	DC 3.0V
Frequency Range:	2408MHz-2474MHz
Channel Number:	34
Modulation Technique:	FSK
Antenna Type:	PCB Antenna
Antenna Gain:	0 dBi

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2408	13	2432	25	2456
2	2410	14	2434	26	2458
3	2412	15	2436	27	2460
4	2414	16	2438	28	2462
5	2416	17	2440	29	2464
6	2418	18	2442	30	2466
7	2420	19	2444	31	2468
8	2422	20	2446	32	2470
9	2424	21	2448	33	2472
10	2426	22	2450	34	2474
11	2428	23	2452		
12	2430	24	2454		

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.



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### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25 x 10 <sup>-8</sup>
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	DE Dedicted rewar	4.5dB (below 1GHz)
1	RF Radiated power	4.8dB (above 1GHz)
8	Dedicted Spurious emission test	4.5dB (30MHz-1GHz)
0	Radiated Spurious emission test	4.8dB (1GHz-18GHz)
9	Temperature test	1 °C
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%



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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, 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:

#### CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC

Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 3816.01)

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

#### • VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

#### FCC – Designation Number: CN1178

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

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

#### Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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### 5 Equipment List

#### 20dB Bandwidth

200B Banawiatin					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

Field Strength of the Fundamental Signal (15.249(a))						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01	
Measurement Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A	
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13	
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05	
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14	
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-14	2017-06-16	2020-06-15	
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09	
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA- 0118-352810	SEM005-05	2016-10-09	2017-10-09	
Pre-amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2016-10-17	2017-10-17	
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13	
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14	
Band filter	N/A	N/A	SEM023-01	N/A	N/A	



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Restricted Band Around	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	2017-05-02	2020-05-01				
Measurement Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A				
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13				
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05				
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14				
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-14	2017-06-16	2020-06-15				
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09				
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA- 0118-352810	SEM005-05	2016-10-09	2017-10-09				
Pre-amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2016-10-17	2017-10-17				
Pre-amplifier (26GHz-40GHz) Compliance Directions System Inc.		PAP-2640-50	SEM005-08	2017-04-14	2018-04-13				
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09				
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14				
Band filter	N/A	N/A	SEM023-01	N/A	N/A				



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-05-10	2018-05-10
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2016-10-09	2017-10-09
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-02	2017-03-05	2020-03-05
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2017-04-14	2018-04-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Emissions							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01		
Measurement Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A		
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13		
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05		
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14		
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-14	2017-06-16	2020-06-15		
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09		
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA- 0118-352810	SEM005-05	2016-10-09	2017-10-09		
Pre-amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2016-10-17	2017-10-17		
Pre-amplifier (26GHz-40GHz) Compliance Directions System Inc.		PAP-2640-50	SEM005-08	2017-04-14	2018-04-13		
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09		
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14		
Band filter	N/A	N/A	SEM023-01	N/A	N/A		



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General used equipment								
Equipment	Manufacturer	Manufacturer Model No In		Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2016-10-12	2017-10-12			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2016-10-12	2017-10-12			
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2016-10-12	2017-10-12			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-18			



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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

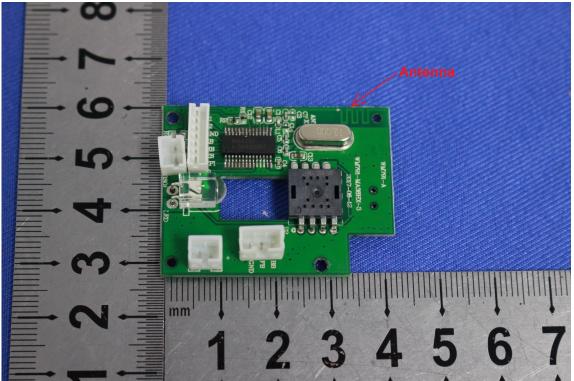
#### 6.1.2 Conclusion

#### 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.

#### EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0 dBi.



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### 7 Radio Spectrum Matter Test Results

### 7.1 20dB Bandwidth

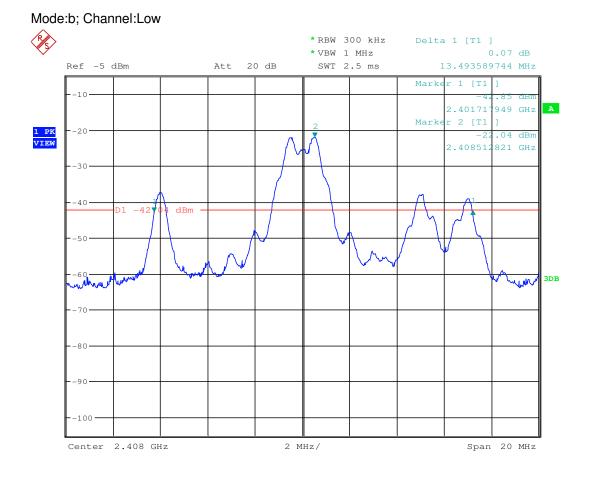
Test Requirement	47 CFR Part 15, Subpart C 15.215
Test Method:	ANSI C63.10 (2013) Section 6.9
Limit:	N/A

#### 7.1.1 E.U.T. Operation

Operating Environment:

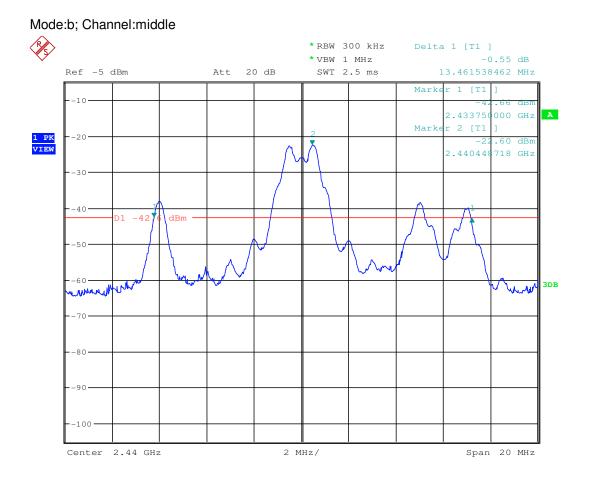
Temperature:	25	°C	Humidity:	55 % RH	Atmospheric Pressure:	1000	mbar
Test mode	b:T)	X mode Ke	ep the EUT	in transmitting with	n modulation mode.		

#### 7.1.2 Measurement Procedure and Data



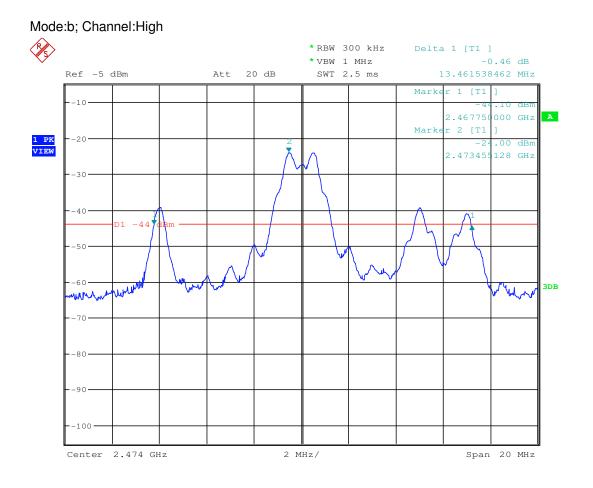


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### 7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement Test Method: Measurement Distance: Limit: 47 CFR Part 15, Subpart C 15.249(a) ANSI C63.10 (2013) Section 6.5&6.6 3m

Frequency	Limit (dBuV/m @3m)	Remark
2400MHz-2483.5MHz	94.0	Average Value
	114.0	Peak Value

#### 7.2.1 E.U.T. Operation

**Operating Environment:** 

Temperature:24 °CHumidity:54 % RHAtmospheric Pressure:1000 mbarTest modeb:TX mode\_Keep the EUT in transmitting with modulation mode.

#### 7.2.2 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.

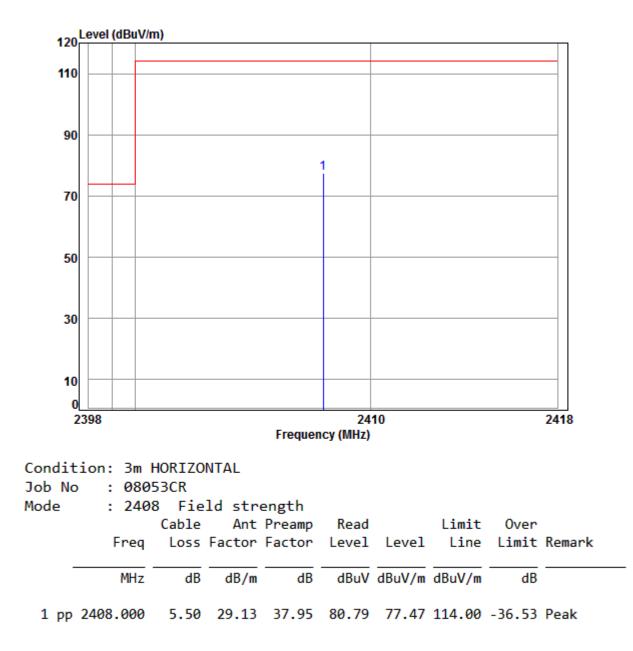
j. Repeat above procedures until all frequencies measured was complete.

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



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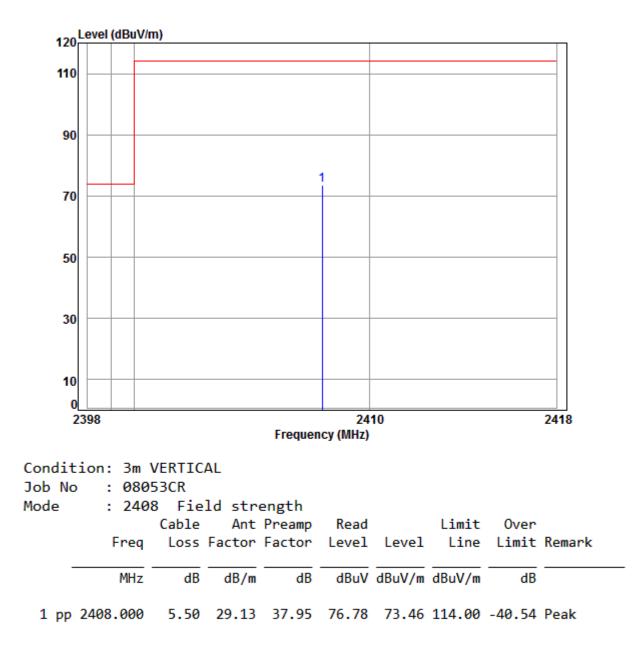
Mode:b; Polarization:Horizontal; Modulation Type:ASK; Channel:Low





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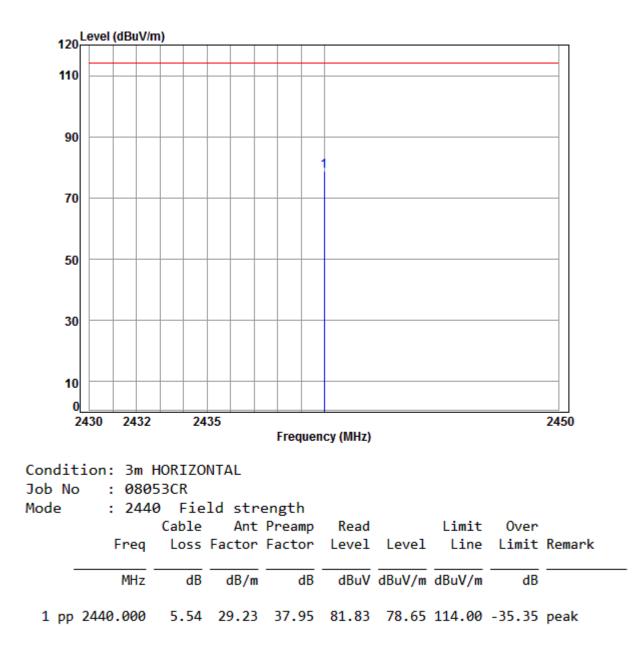
Mode:b; Polarization:Vertical; Modulation Type:ASK; ; Channel:Low





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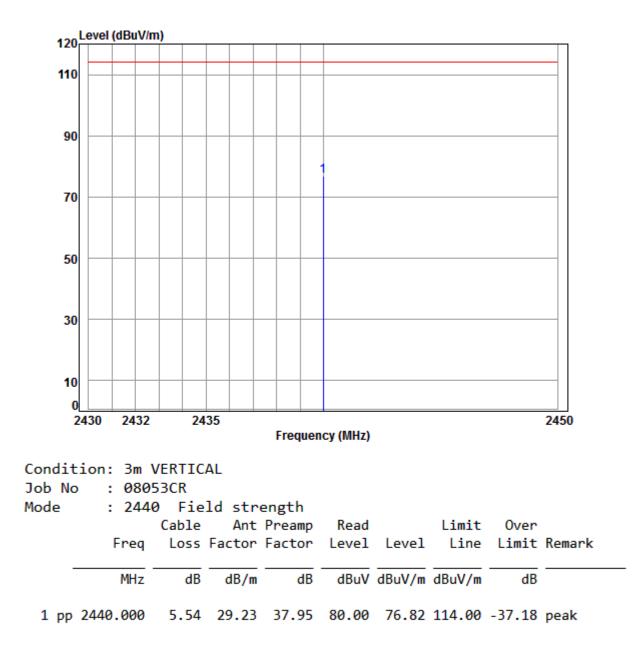
Mode:b; Polarization:Horizontal; Modulation Type:ASK; ; Channel:middle





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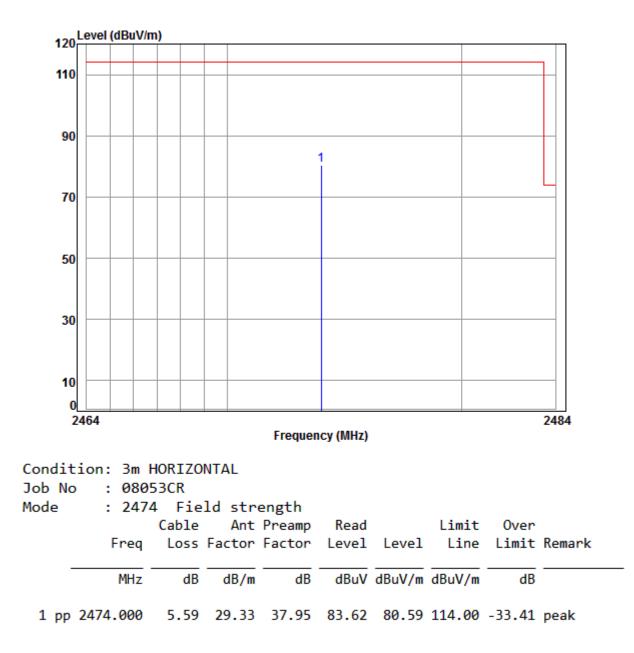
Mode:b; Polarization:Vertical; Modulation Type:ASK; ; Channel:middle





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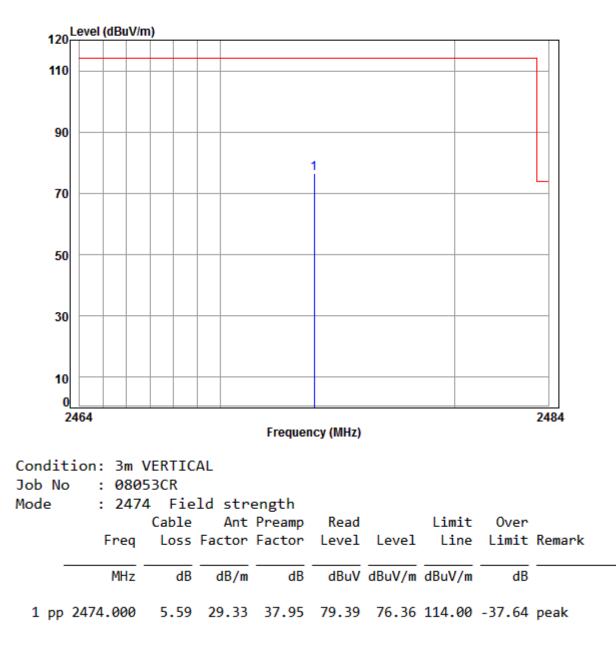
Mode:b; Polarization:Horizontal; Modulation Type:ASK; ; Channel:High





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Mode:b; Polarization:Vertical; Modulation Type:ASK; ; Channel:High



#### Remark:

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

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

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



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> Value Value Value Value

Peak Value

#### 7.3 Restricted Band Around Fundamental Frequency

Test Requirement Test Method: Measurement Distance: Limit:

Above 1GHz

47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209 ANSI C63.10 (2013) Section 6.4&6.5&6.6 3m

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

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.

74.0



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#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature:23 °CHumidity:54 % RHAtmospheric Pressure:1000 mbarTest modeb:TX modeKeep the EUT in transmitting with modulation mode.

#### 7.3.2 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.

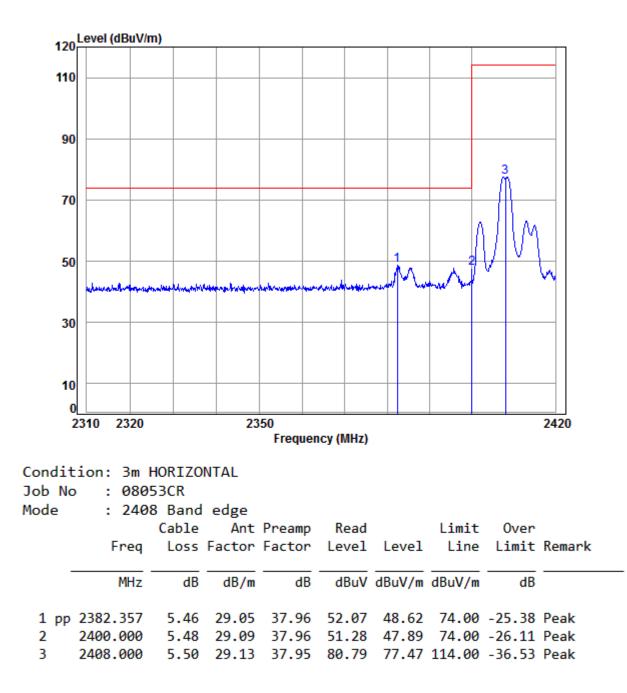
j. Repeat above procedures until all frequencies measured was complete.

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



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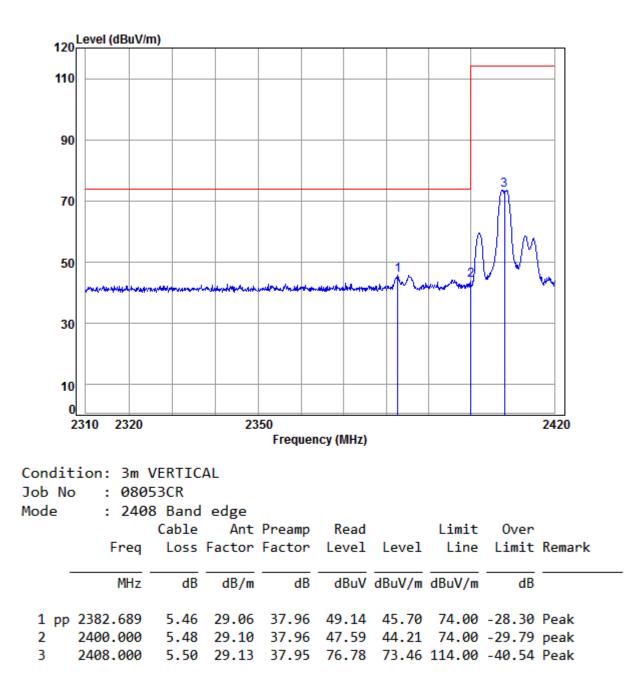
Mode:b; Polarization:Horizontal; Modulation Type:ASK; ; Channel:Low





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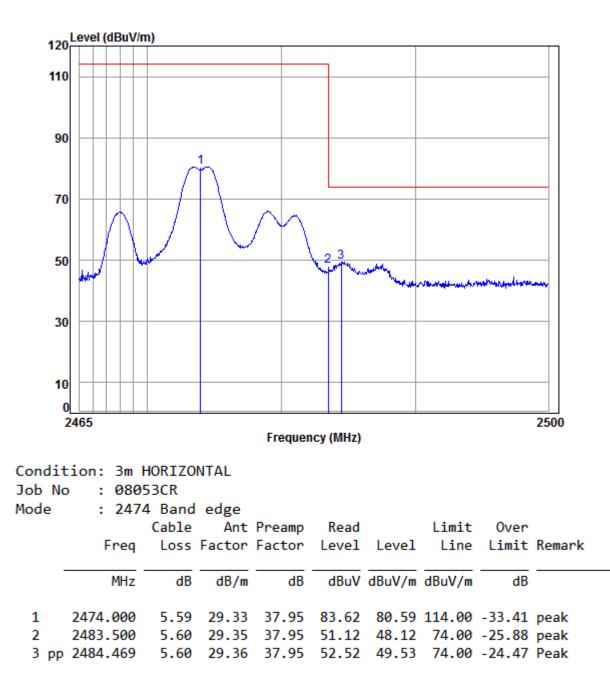
Mode:b; Polarization:Vertical; Modulation Type:ASK; ; Channel:Low





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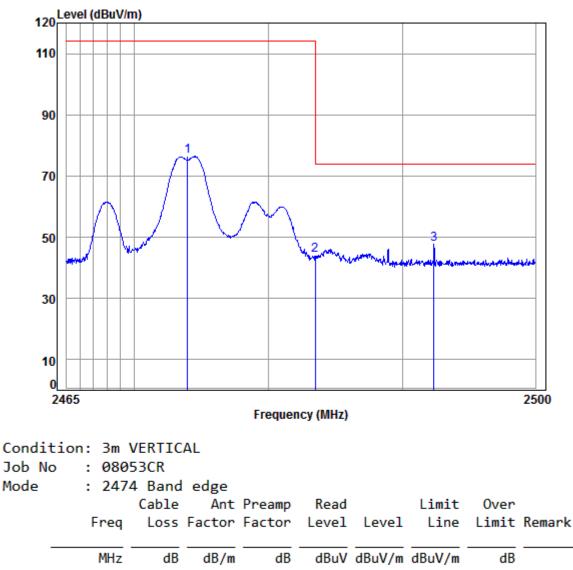
Mode:b; Polarization:Horizontal; Modulation Type:ASK; ; Channel:High





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Mode:b; Polarization:Vertical; Modulation Type:ASK; ; Channel:High



1	2474.000	5.59	29.33	37.95	79.39	76.36	114.00	-37.64 peak
2	2483.500	5.60	29.35	37.95	47.30	44.30	74.00	-29.70 peak
3 pp	2492.398	5.61	29.38	37.95	50.58	47.62	74.00	-26.38 Peak



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### 7.4 Radiated Emissions

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&6.6
Measurement Distance:	3m
Limit:	

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3

#### 7.4.1 E.U.T. Operation

**Operating Environment:** 

Temperature:	25 °C	Humidity:	55 % RH	Atmospheric Pressure:	1000	mbar
Test mode	b:TX mode_Ke	ep the EUT	in transmitting wit	h modulation mode.		

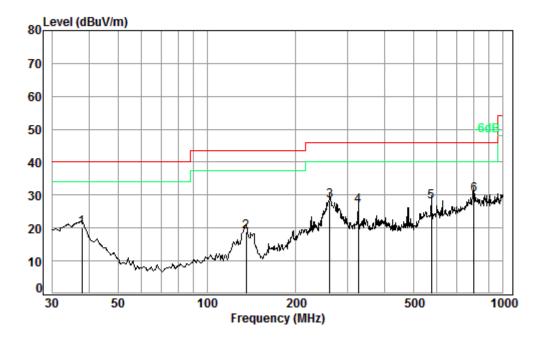
#### 7.4.2 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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**30MHz~1GHz** QP value: Mode:b; Polarization:Horizontal;



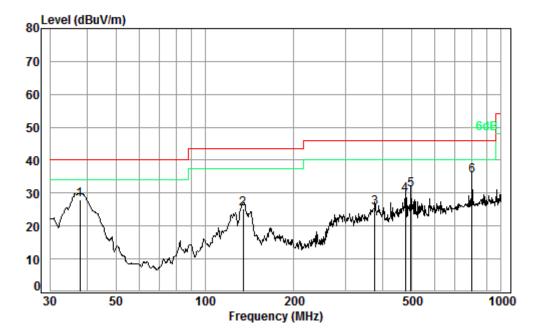
Condition:	3m HORIZONTAL
Job No. :	08053CR
Test mode:	b

	Freq			Preamp Factor			Limit Line	Over Limit
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 3 4 5	37.81 135.51 260.14 324.46 574.63	1.29 1.72	7.92 12.50 14.78	27.33 26.98 26.51 26.58 27.58	36.67 40.64 36.60	18.90 28.35 26.78	43.50 46.00 46.00	-17.65 -19.22
6 pp	798.98			27.30				



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Mode:b;Polarization:Vertical;



Condition: 3m VERTICAL Job No. : 08053CR

Test mode: b

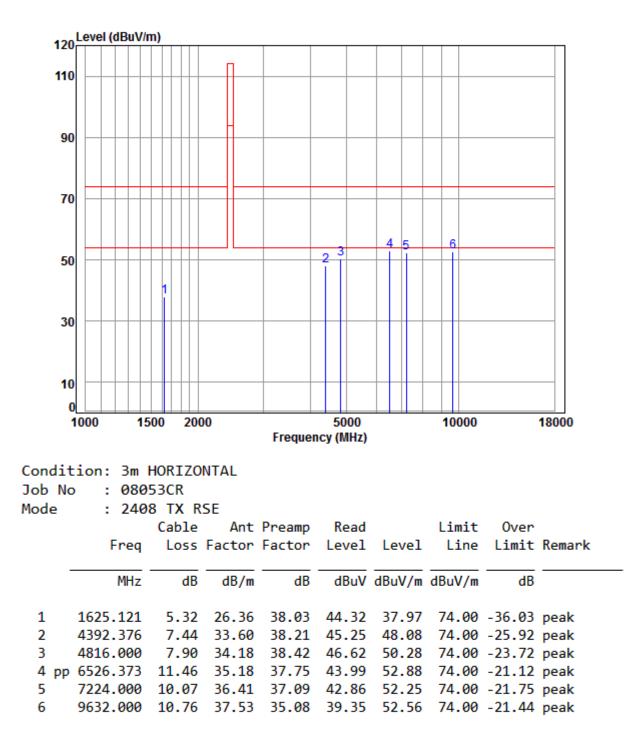
	-			Preamp				0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	37.81	0.60	14.33	27.33	40.32	27.92	40.00	-12.08
2	134.56	1.29	7.88	26.98	42.94	25.13	43.50	-18.37
3	375.94	2.14	16.01	26.97	34.32	25.50	46.00	-20.50
4	475.50	2.51	17.80	27.58	36.85	29.58	46.00	-16.42
5	497.68	2.59	17.80	27.70	38.24	30.93	46.00	-15.07
6 pp	798.98	3.20	22.10	27.30	37.23	35.23	46.00	-10.77



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#### Above 1GHz

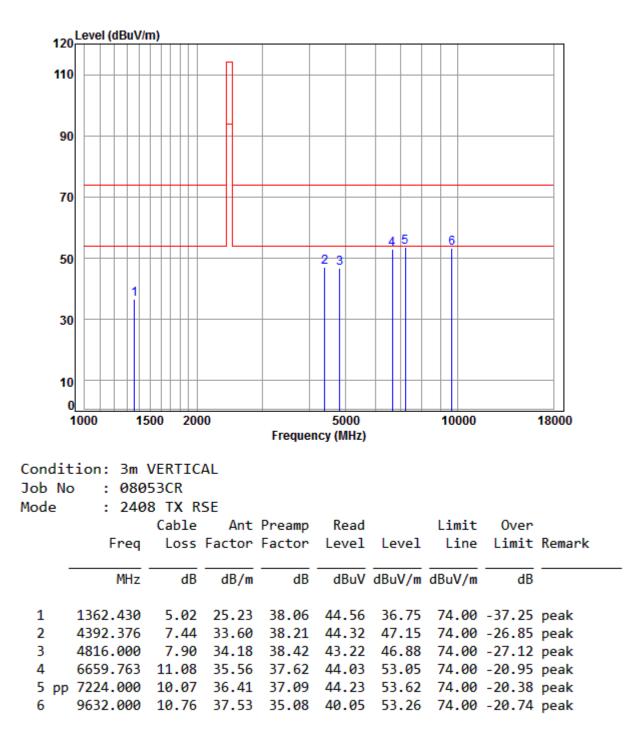
Mode:b; Polarization:Horizontal; Modulation Type:ASK; Channel:Low





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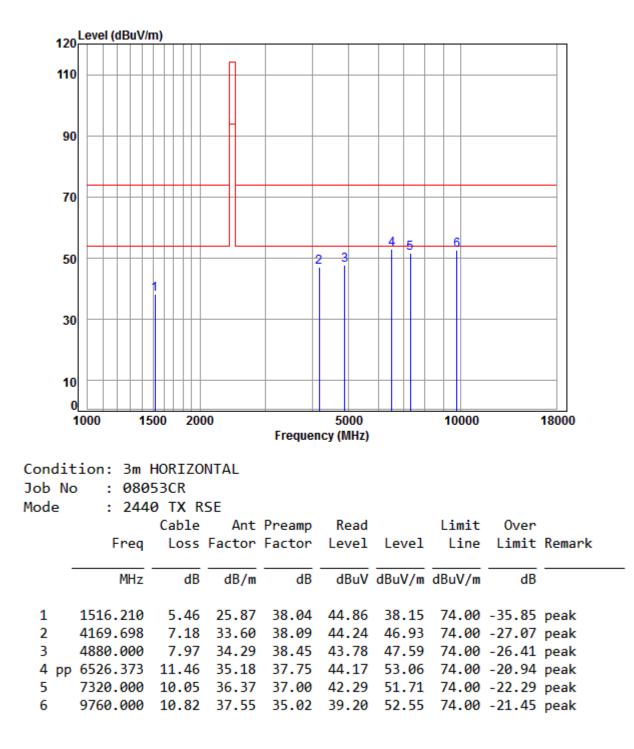
Mode:b; Polarization:Vertical; Modulation Type:ASK; ; Channel:Low





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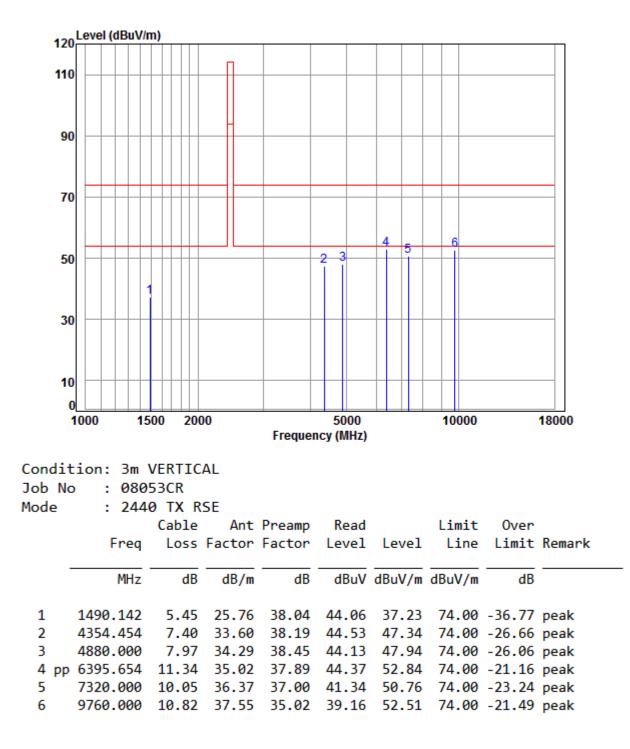
Mode:b; Polarization:Horizontal; Modulation Type:ASK; ; Channel:middle





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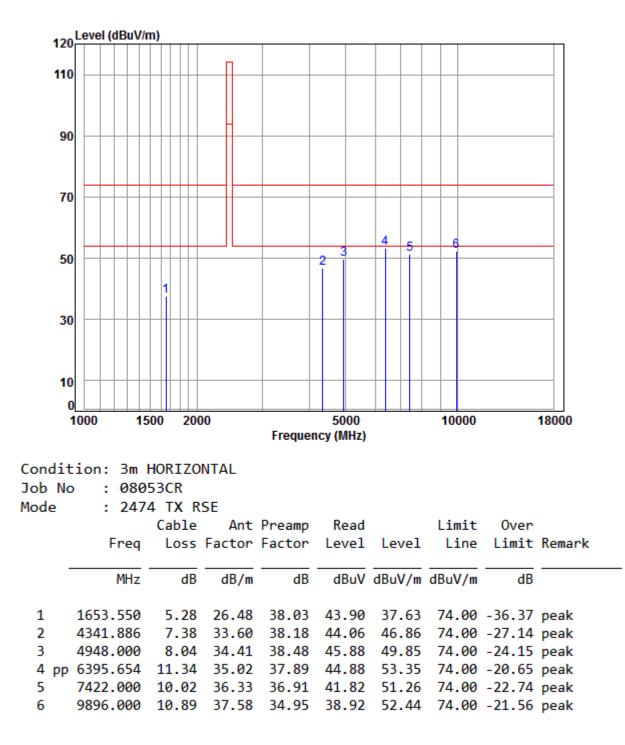
Mode:b; Polarization:Vertical; Modulation Type:ASK; ; Channel:middle





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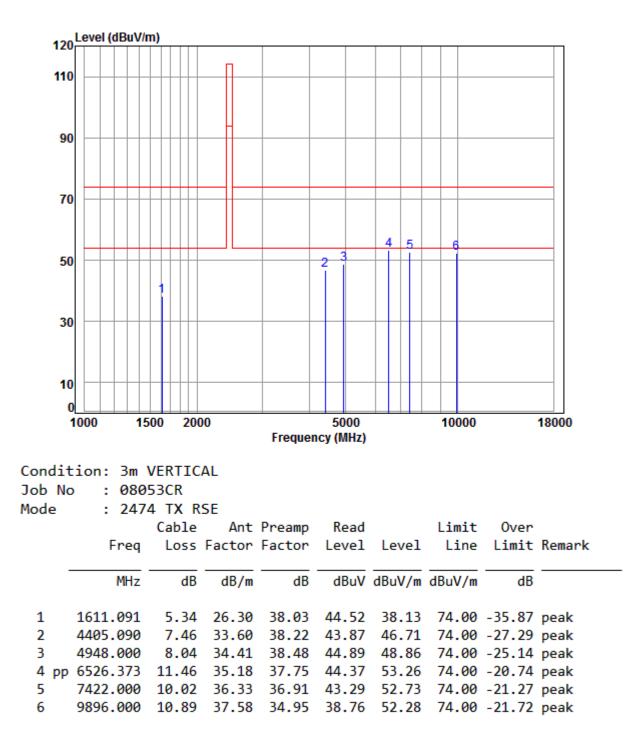
Mode:b; Polarization:Horizontal; Modulation Type:ASK; ; Channel:High





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Mode:b; Polarization:Vertical; Modulation Type:ASK; ; Channel:High





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Remark:

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

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

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

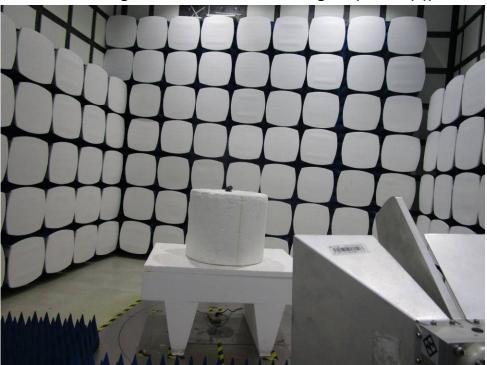
3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

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### 8 Photographs



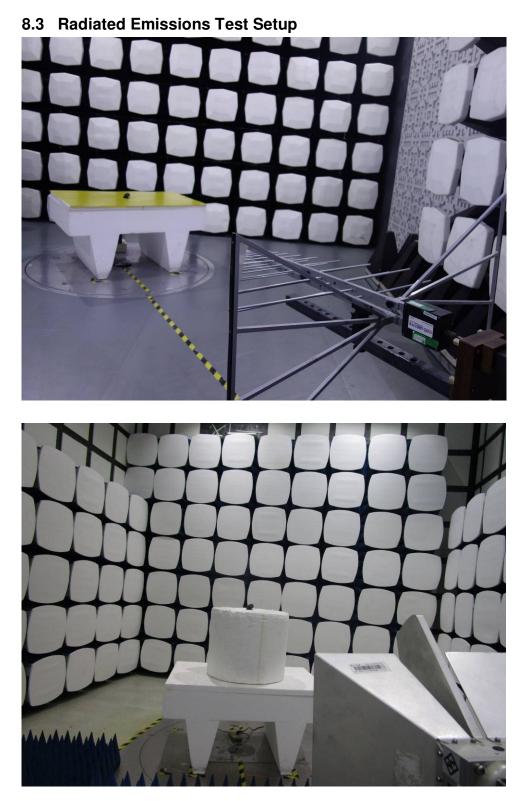
8.1 Field Strength of the Fundamental Signal (15.249(a)) Test Setup

8.2 Restricted Band Around Fundamental Frequency Test Setup





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#### 8.4 EUT Constructional Details

Refer to External photos and Internal photos.