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TEST REPORT

Application No.:	SZEM1705004775CR		
Applicant:	Doubleeagle INDUSTRY(CHINA) LIMITED		
Address of Applicant:	Xingda Industrial Park, Chenghai District, Shantou City, Guangdong Province, China		
Manufacturer:	DOUBLEEAGLE INDUSTRY (CHINA) LIMITED		
Supplier:	DOUBLEEAGLE INDUSTRY (CHINA) LIMITED		
Equipment Under Test (EUT):		
EUT Name:	R/C Building Blocks		
Model No.:	Please refer to section 2 🌲		
*	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.		
Request Age Grading:	3+		
Country of Origin:	China		
FCC ID:	2AAFASY-C51001W		
Standards:	47 CFR Part 15, Subpart C 15.249		
Date of Receipt:	2017-05-19		
Date of Test:	2017-05-23 to 2017-06-21		
Date of Issue:	2017-07-03		
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						
Chapter	Date	Modifier	Remark			
	2017-07-03		Original			
	Chapter	Chapter Date	Chapter Date Modifier			

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	Pass	

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	

Remark:

Model No.: C51001W, C51002W, C51003W, C51004W,C51005W, C51006W, C51007W, C51008W, C51009W, C51010W, C51011W, C51012W, C51013W, C51014W, C51015W, C51016W, C51017W, C51018W, C51019W, C51020W, C52001W, C52002W, C52003W, C52004W, C52005W, C52006W, C52007W, C52008W, C52009W, C52010W, C52011W, C52012W, C52013W, C52014W, C52015W, C52016W, C52017W, C52018W, C52019W, C52020W, C53007W, C53008W, C53009W, C53010W, C54001W, C54002W, C54003W, C54004W, C54005W, C54006W, C54007W, C54008W, C54009W, C54010W, C11001W, C11002W, C11003W, C11004W, C11005W, C11006W, C11007W, C11008W, C11009W, C11010W, C12001W, C12002W, C12003W, C12004W, C12005W, C12006W, C12007W, C12007W, C12008W, C12009W, C12009W, C12007W, C12008W, C12009W, C12000W, C12000W, C12007W, C12008W, C12009W, C12009W, C12000W

Only the model C51001W was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, only different on decoration, colour and model name.



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4 General Information

4.1 Details of E.U.T.

Power supply: Lithium Ion Battery: 3.6V 400mAh rechargeable battery which charged by USB port for car 3V DC (1.5Vx2"AA" Size Batteries) for remote controller Test voltage AC 120V/60Hz Cable: USB cable:60cm unshileded Frequency Range: 2405MHz-2475MHz Modulation Type: GFSK Number of Channels: 71 Antenna Type: Wire Antenna Gain: 0dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC/DC Adapter	SGS	DC 5V	REF. No.SEA0500

4.3 Measurement Uncertainty

No.	Item Measurement Uncertainty	
1	Radio Frequency	7.25 x 10-8
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	Redicted Spurious omission test	4.5dB (30MHz-1GHz)
0	Radiated Spurious emission test	4.8dB (1GHz-18GHz)
9	Temperature test	1℃
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 – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

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					
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
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
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

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-10	2018-05-10
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2017-06-05	2018-06-04
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2014-11-01	2017-11-01
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-13
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
Band filter	N/A	N/A	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	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:

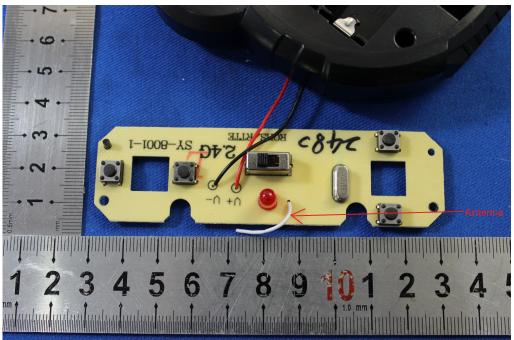
47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirment:

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.



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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EUT Antenna:



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

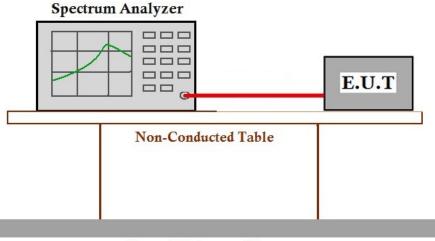
Test Requirement	47 CFR Part 15, Subpart C 15.215
Test Method:	ANSI C63.10 (2013) Section 6.9
Limit:	N/A

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:	25 °C	Humidity:	55 % RH	Atmospheric Pressure:	1005	mbar
Test mode	b:TX mode_K	eep the EUT	in transmitting v	with modulation mode.		

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

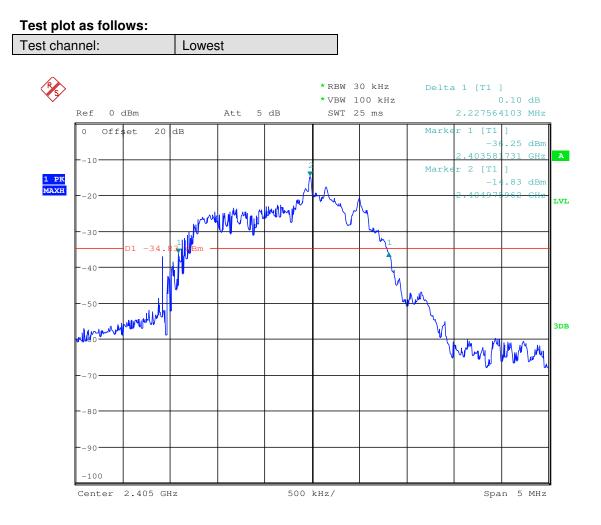
Measurement Data

Test Channel	20dB bandwidth (MHz)	Results
Lowest	2.2276	Pass
Middle	2.4400	Pass
Highest	1.5946	Pass

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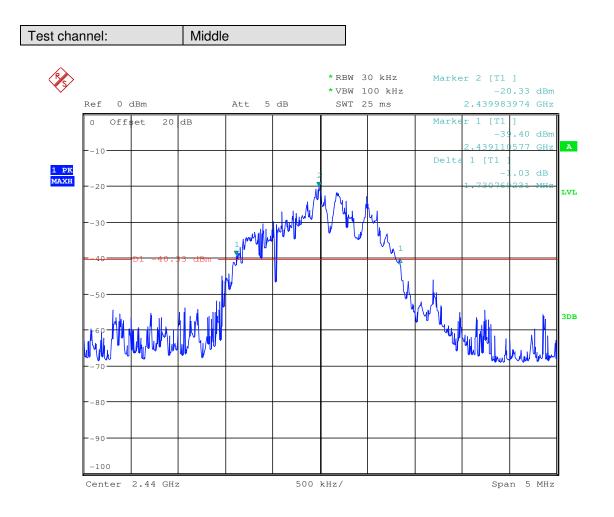


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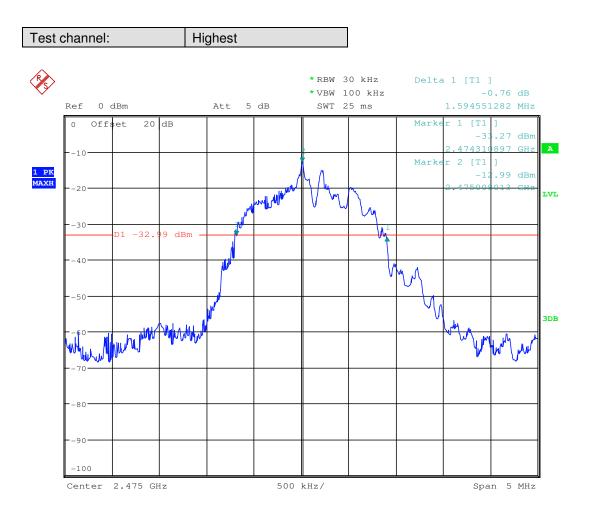
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7.2 Field Strength of the Fundamental Signal (15.249(a))

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

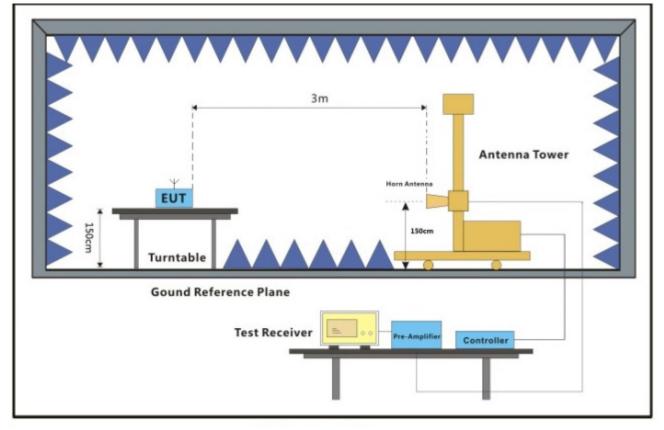
Frequency	Limit (dBuV/m @3m)	Remark
	94.0	Average Value
2400MHz-2483.5MHz	114.0	Peak Value

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:	25	°C	Humidity:	55 % RH	Atmospheric Pressure:	1015	mbar
Test mode	b:T	b:TX mode_Keep the EUT in transmitting with modulation mode.					

7.2.2 Test Setup Diagram





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7.2.3 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.

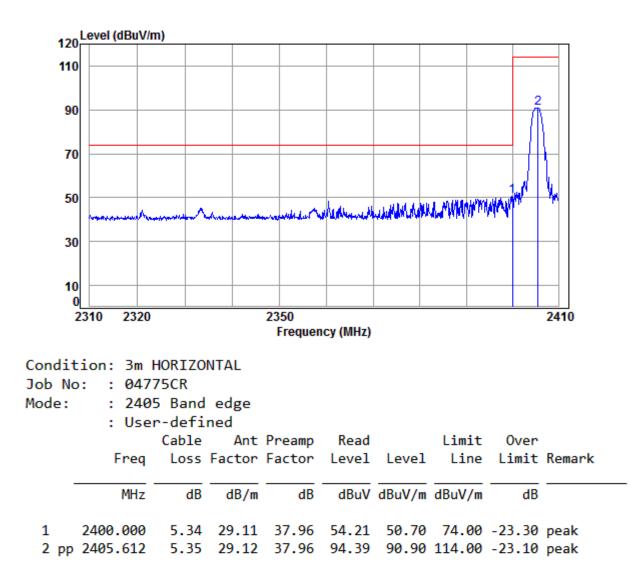
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

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



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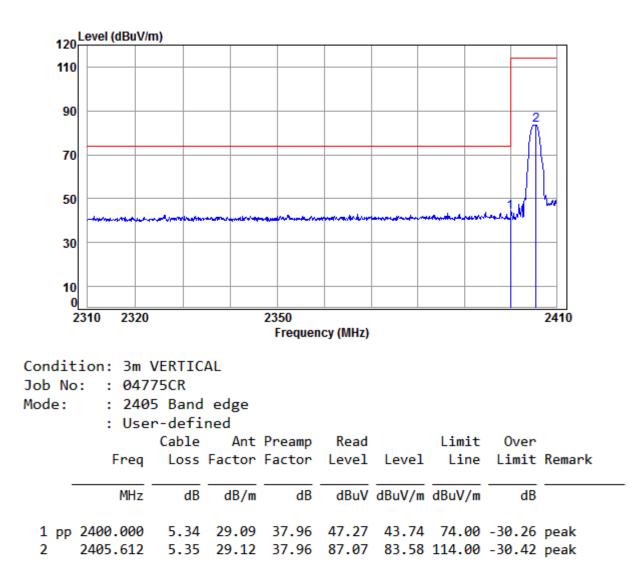
Mode:b; Polarization:Horizontal; Modulation Type:GFSK; Channel:Low





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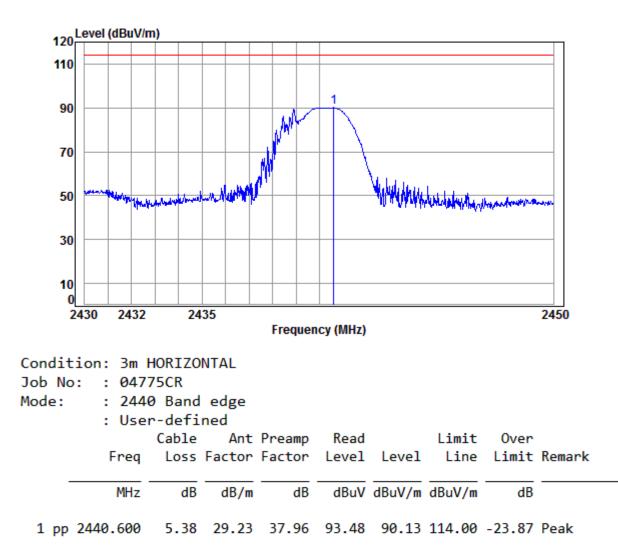
Mode:b; Polarization:Vertical; Modulation Type:GFSK; Channel:Low





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

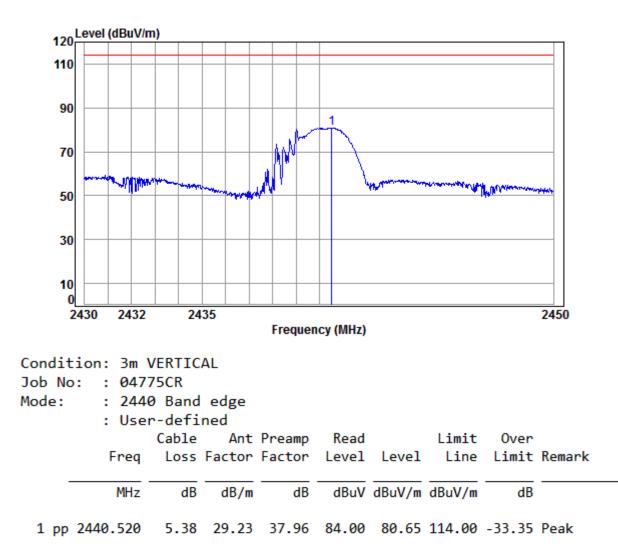


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Mode:b; Polarization:Vertical; Modulation Type:GFSK; Channel:middle

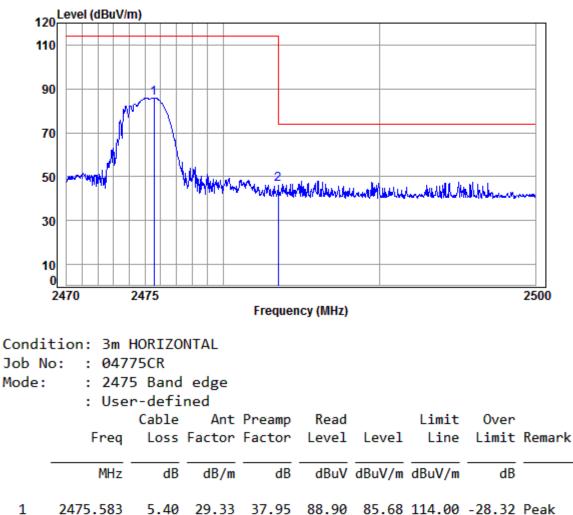


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Mode:b; Polarization:Horizontal; Modulation Type:GFSK; Channel:High

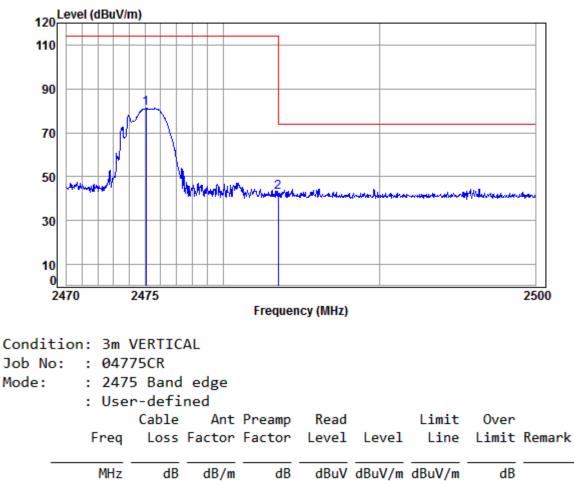


1 2475.583 5.40 29.33 37.95 88.90 85.68 114.00 -28.32 Peak 2 pp 2483.500 5.41 29.35 37.95 49.55 46.36 74.00 -27.64 Peak



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



1	2475.045	5.40	29.33	37.95	84.24	81.02	114.00	-32.98 Peak
2 pp	2483.500	5.41	29.35	37.95	46.16	42.97	74.00	-31.03 Peak



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7.3 Restricted Band Around Fundamental Frequency

Test Requirement47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209Test Method:ANSI C63.10 (2013) Section 6.4&6.5&6.6Measurement Distance:3mLimit:Image: Comparent of the section of th

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.

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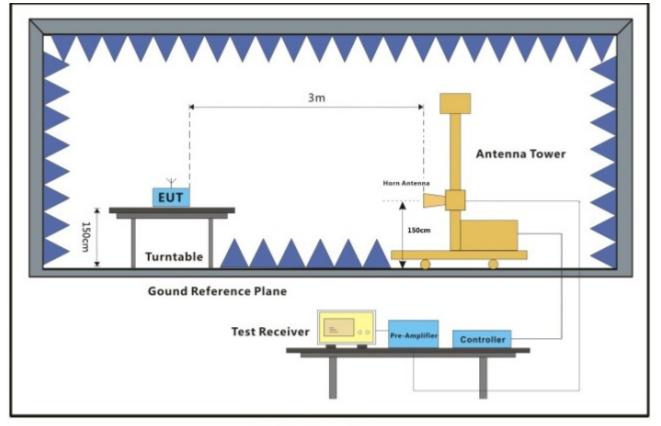


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7.3.1 E.U.T. Operation

Operating Enviror	nment	t:					
Temperature:	23	°C	Humidity:	54 % RH	Atmospheric Pressure:	1015	mbar
Test mode	b:T	b:TX mode_Keep the EUT in transmitting with modulation mode.					

7.3.2 Test Setup Diagram



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7.3.3 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.

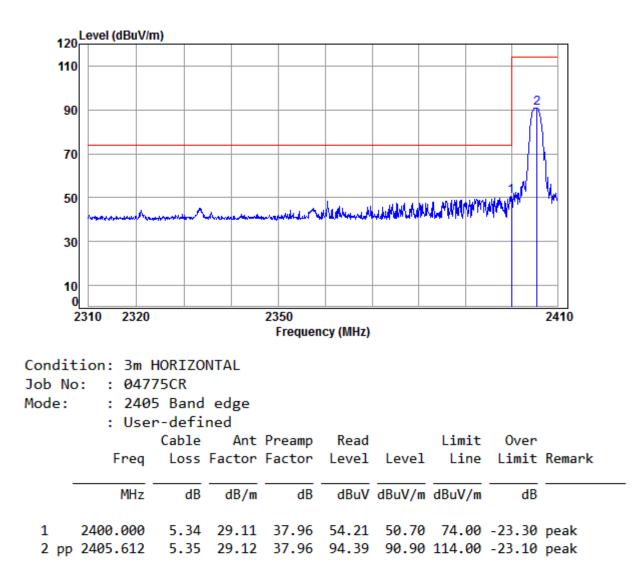
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

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



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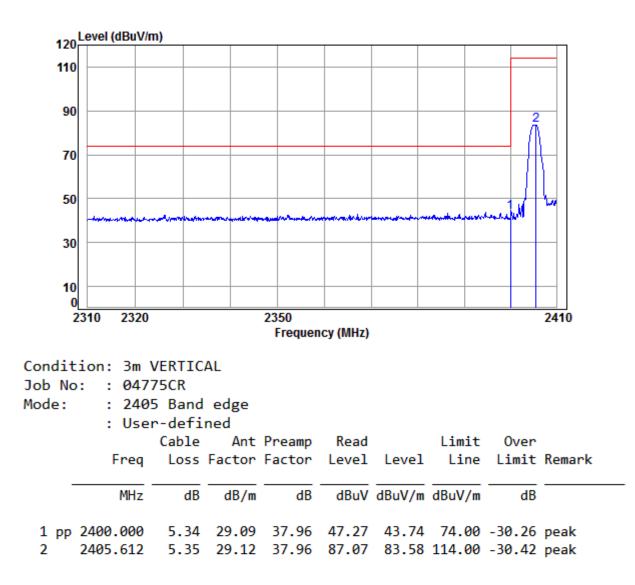
Mode:b; Polarization:Horizontal; Modulation Type:GFSK; Channel:Low





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

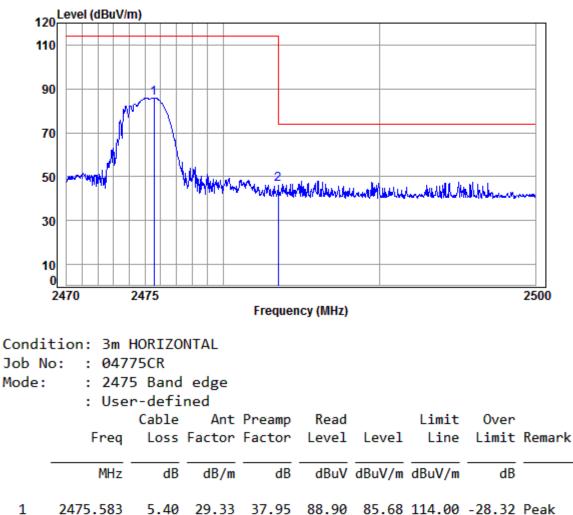


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Mode:b; Polarization:Horizontal; Modulation Type:GFSK; Channel:High



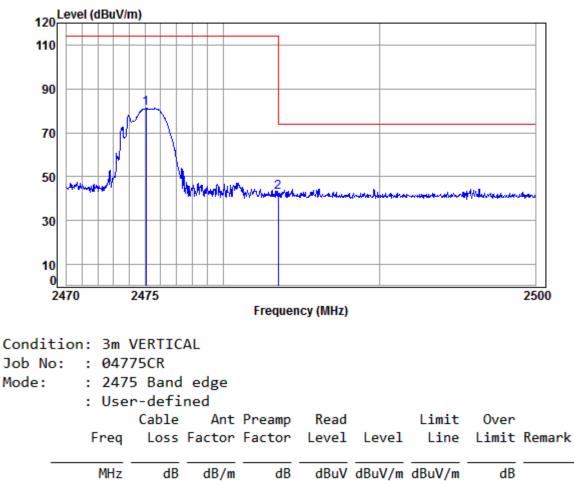
1 2475.583 5.40 29.33 37.95 88.90 85.68 114.00 -28.32 Peak 2 pp 2483.500 5.41 29.35 37.95 49.55 46.36 74.00 -27.64 Peak

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



1	2475.045	5.40	29.33	37.95	84.24	81.02	114.00	-32.98 Peak
2 pp	2483.500	5.41	29.35	37.95	46.16	42.97	74.00	-31.03 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

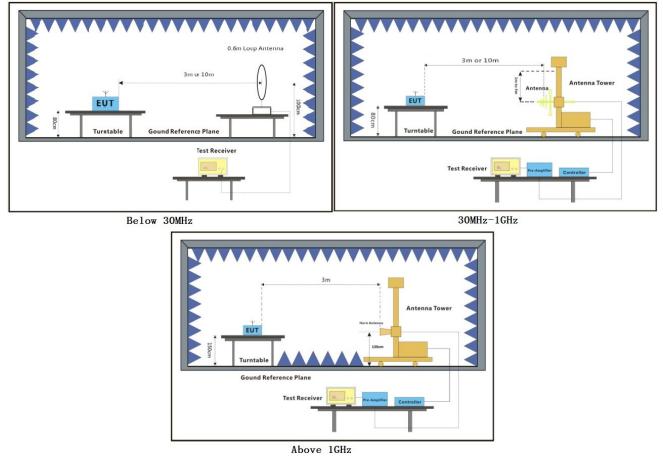
Operating Environment:

Temperature:	25 °C	Humidity:	55 % RH	Atmospheric Pressure:	1015	mbar
Test mode	b:TX mode_K					



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7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

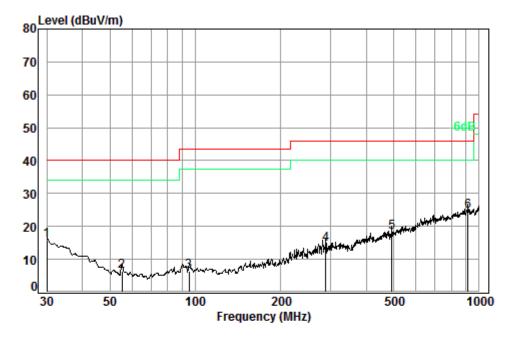
For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated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

Mode:b; Polarization:Horizontal



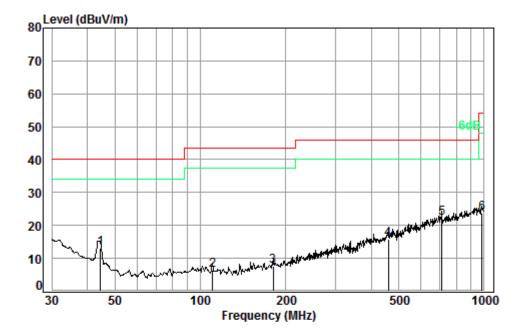
Condition: 3m HORIZONTAL Job No. : 04774CR Test mode: b

Freq				Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	18.70	27.36	23.81	15.75	40.00	-24.25
2	55.22	0.80	7.92	27.28	25.02	6.46	40.00	-33.54
3	95.09	1.15	8.90	27.21	23.67	6.51	43.50	-36.99
4	287.99	1.85	13.37	26.43	25.76	14.55	46.00	-31.45
5	492.47	2.57	17.80	27.68	25.52	18.21	46.00	-27.79
6 pp	912.86	3.61	23.25	26.71	24.53	24.68	46.00	-21.32



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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 04774CR

Test mode: b

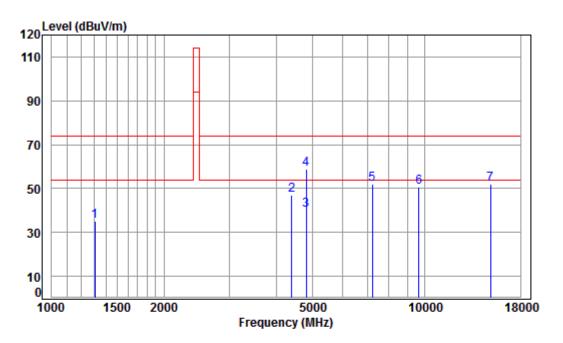
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB		dB	-dpV	dBull/m	dBull (m	dB
	mnz	ub	ub/m	ub	ubuv	ubuv/m	ubuv/m	ub
1	44.59	0.70	11.08	27.31	28.61	13.08	40.00	-26.92
2	110.57	1.23	8.56	27.13	23.88	6.54	43.50	-36.96
3	180.65	1.37	9.91	26.77	23.23	7.74	43.50	-35.76
4	459.11	2.45	17.23	27.50	23.56	15.74	46.00	-30.26
5 pp	709.18	2.93	21.60	27.40	25.14	22.27	46.00	-23.73
6	982.62	3.68	23.60	26.40	22.90	23.78	54.00	-30.22



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Above 1GHz

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



Condition: 3m H	IORIZONTAL
-----------------	------------

Job No:	:	0477	5CR
Mode:	:	2405	ΤХ

:	2405	ТΧ	RSE
---	------	----	-----

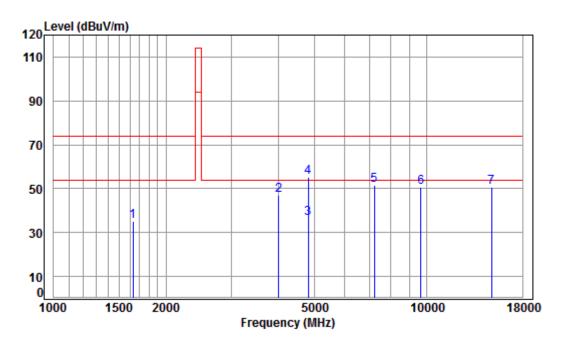
User-defined
Oper delitied

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1308.399	4.23	24.99	38.07	43.98	35.13	74.00	-38.87	peak
2	4392.376	7.16	33.60	38.20	44.33	46.89	74.00	-27.11	peak
3	pp 4810.000	7.73	34.16	38.40	36.65	40.14	54.00	-13.86	Average
4	pk 4810.000	7.74	34.17	38.40	55.17	58.68	74.00	-15.32	peak
5	7215.000	9.66	36.41	37.11	43.27	52.23	74.00	-21.77	peak
6	9620.000	11.07	37.52	35.09	37.09	50.59	74.00	-23.41	peak
7	14960.120	14.84	41.23	38.90	34.97	52.14	74.00	-21.86	peak



Report No.: SZEM170500477502 34 of 41 Page:

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



Condition:	3m VERTICAL
Job No: :	04775CR

Mode:	:	240

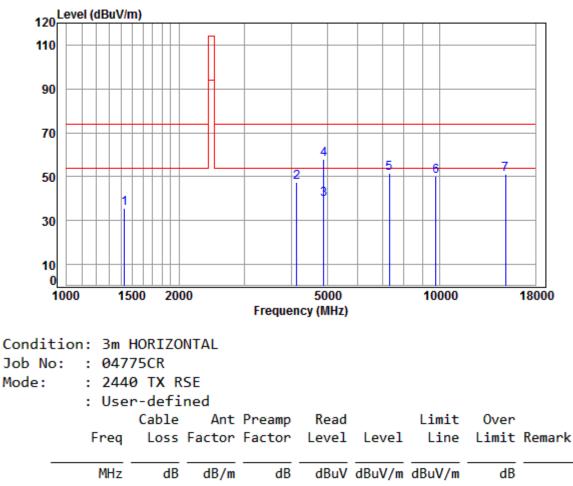
2:	:	2405	ТΧ	RSE				
	:	User-defined						

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2	1629.825 4004.339			38.04 38.00					
	pp 4810.000 pk 4810.000								-
	7215.000 9620.000 14873.890	11.07	37.52	35.09	37.30	50.80	74.00	-23.20	peak



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



	MHZ	aB	aB/m	ab	abuv	aBuv/m	aBuv/m	ab	
1	l 1431.047	4.39	25.52	38.06	43.62	35.47	74.00	-38.53	peak
1	4133.699	6.86	33.60	38.07	44.88	47.27	74.00	-26.73	peak
3	3 pp 4880.000	7.83	34.28	38.44	35.89	39.56	54.00	-14.44	Average
4	1 pk 4880.000	7.83	34.29	38.44	54.41	58.09	74.00	-15.91	peak
5	5 7320.000	9.73	36.37	37.01	42.49	51.58	74.00	-22.42	peak
(5 9760.000	11.21	37.55	35.02	36.49	50.23	74.00	-23.77	peak
	7 14960.120	14.84	41.23	38.90	33.93	51.10	74.00	-22.90	peak

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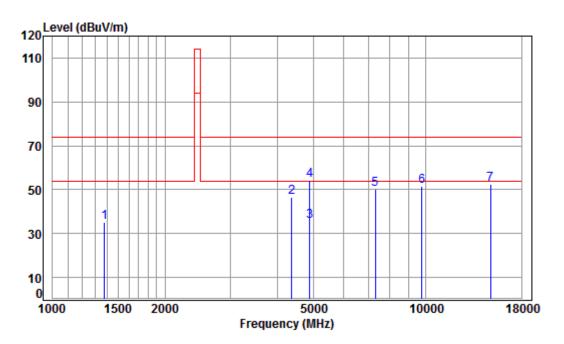


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Limit

Over Line Limit Remark

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



Condition:	3m VERTICAL
Job No: :	04775CR

Ν

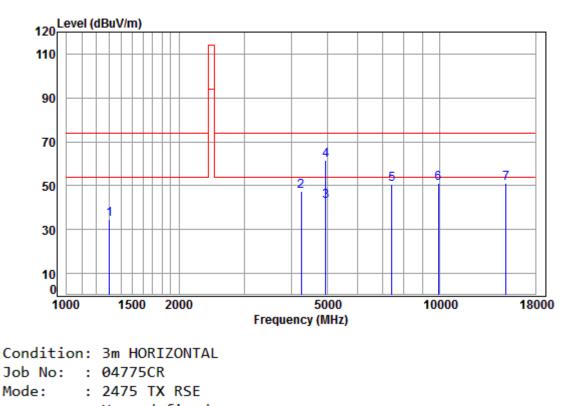
Mode:	: 2440 TX RSE : User-defined										
	Freq			Preamp Factor		Level					
-	MHz	dB	dB/m	dB		dBuV/m					

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1378.273	4.32	25.30	38.06	43.39	34.95	74.00	-39.05	peak
2	4367.058	7.13	33.60	38.18	44.08	46.63	74.00	-27.37	peak
3 pj	4880.000	7.83	34.28	38.44	32.12	35.79	54.00	-18.21	Average
4 pl	k 4880.000	7.83	34.29	38.44	50.64	54.32	74.00	-19.68	peak
5	7320.000	9.73	36.37	37.01	40.98	50.07	74.00	-23.93	peak
6	9760.000	11.21	37.55	35.02	37.71	51.45	74.00	-22.55	peak
7	14873.890	14.82	41.08	38.91	35.56	52.55	74.00	-21.45	peak



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

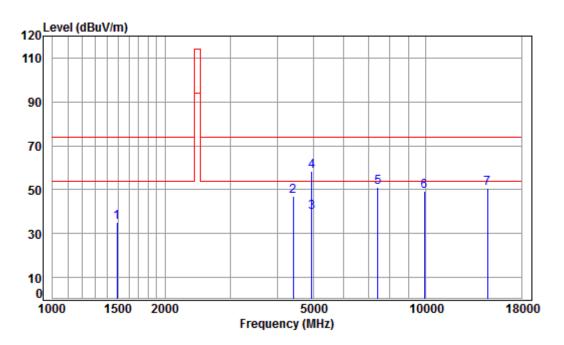


: Usei								
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1304.623	4.23	24.97	38.07	43.33	34.46	74.00	-39.54	peak
2 4254.921	7.00	33.60	38.13	45.19	47.66	74.00	-26.34	peak
3 pp 4950.000	7.92	34.41	38.47	39.22	43.08	54.00	-10.92	Average
4 pk 4950.000	7.93	34.41	38.47	57.74	61.61	74.00	-12.39	peak
5 7425.000	9.80	36.33	36.92	41.47	50.68	74.00	-23.32	peak
6 9900.000	11.34	37.58	34.95	37.09	51.06	74.00	-22.94	peak
7 15003.420	14.85	41.30	38.90	33.95	51.20	74.00	-22.80	peak



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



Condition:	3m VERTICAL
Job No: :	04775CR

Mode:	:	2475 TX RSE
		User-defined

		. 056	ueri	neu						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1485.841	4.45	25.74	38.05	43.03	35.17	74.00	-38.83	peak
2		4405.090	7.18	33.60	38.20	44.52	47.10	74.00	-26.90	peak
3	рр	4950.000	7.92	34.41	38.47	35.98	39.84	54.00	-14.16	Average
4	pk	4950.000	7.93	34.41	38.47	54.50	58.37	74.00	-15.63	peak
5		7425.000	9.80	36.33	36.92	41.80	51.01	74.00	-22.99	peak
6		9900.000	11.34	37.58	34.95	35.41	49.38	74.00	-24.62	peak
7		14618.170	14.75	40.62	38.94	34.06	50.49	74.00	-23.51	peak
										-



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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.

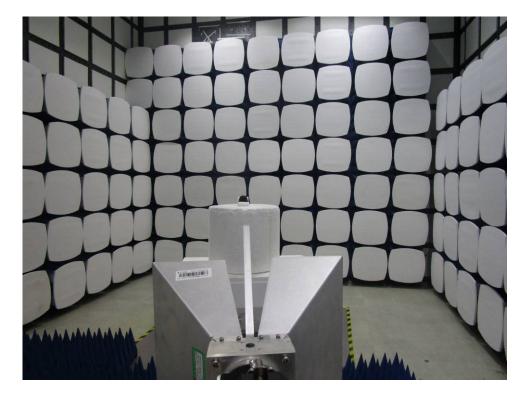


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8 Photographs

8.1 Radiated Emissions Test Setup







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8.2 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1705004775CR.