



Report No.: SZEM190601518002

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TEST REPORT

Application No.: SZEM1906015180CR

Applicant: SHANTOU QSTTOYS CO., LTD

Address of Applicant: Tongyi Rd. Chenghai District, Shantou, Guangdong, China

Buyer: BUZZ RETAIL LIMITED

SUITES # 1-3, SWEET SPACE (802) HIGHGATE STUDIOS, 53/79 Address of Buyer:

HIGHGATE ROAD LONDON NW5 1TL

Equipment Under Test (EUT):

EUT Name: MICRO JET DRONE

Model No.: 1442, 1443, 1445, QST1942, QST1943, QST1945 *

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

actually tested and which were electrically identical.

FCC ID: 2AGYK-QSTF351442

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

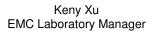
Date of Receipt: 2019-06-14

Date of Test: 2019-06-19 to 2019-08-01

Date of Issue: 2019-08-02

Pass* **Test Result:**

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



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	Revision Record						
Version	Version Chapter Date Modifier Rem						
01		2019-08-02		Original			

Authorized for issue by:			
	Bim chen		
	Bill Chen /Project Engineer	_	
	EvicFu		
	Eric Fu /Reviewer	_	



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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	Item Standard Method Requirement		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		

Declaration of EUT Family Grouping:

Model No.: 1442, 1443, 1445, QST1942, QST1943, QST1945

Only the model 1442 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on colour, appearance and packaging.



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General Information

Details of E.U.T.

Power supply:	Tx:DC 4.5V by 1.5V x 3"AA" batteries
Frequency Range	2458MHz to 2480MHz
Number of Channels:	23
Channel Spacing:	1MHz
Modulation Type:	GFSK
Antenna Type:	Integral Antenna
Antenna Gain:	1dBi

Operation I	Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
1	2458MHz	7	2464MHz	13	2470MHz	19	2476MHz	
2	2459MHz	8	2465MHz	14	2471MHz	20	2477MHz	
3	2460MHz	9	2466MHz	15	2472MHz	21	2478MHz	
4	2461MHz	10	2467MHz	16	2473MHz	22	2479MHz	
5	2462MHz	11	2468MHz	17	2474MHz	23	2480MHz	
6	2463MHz	12	2469MHz	18	2475MHz			

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH1)	2458MHz
The Middle channel(CH6)	2463MHz
The Highest channel(CH23)	2480MHz

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 ⁻⁸
2	Duty cycle	± 0.37%
3	20dB Bandwidth	± 3%
4	E-Field	± 4.5dB (Below 1GHz)
5	Restricted Band	± 4.5dB (Below 1GHz)
_	Redicted Couries and anicoton	± 4.5dB (Below 1GHz)
6	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
7	Temperature test	± 1 ℃
8	Humidity test	± 3%
9	Supply voltages	± 1.5%
10	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 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: 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.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

Abnormalities from Standard Conditions

None



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Equipment List

RF Conducted					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2024-06-12
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	200	N/A	SEM031-02	2018-07-12	2019-07-11
	SGS	N/A SEMIO31-02	2019-07-11	2020-07-10	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24
Electric and Magnetic Field Analyzer	Narda	NBM- 550/EHP-50F	EMC2143	2018-02-07	2020-02-06
Electric Field Probe (100KHz-3GHz)	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
CMC Toolog	Nordo	ELT 400	075000 4	2018-07-09	2019-07-08
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

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	2018-03-13	2021-03-12	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coovial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11	
Coaxial Cable	565	IN/A	SEIVIU26-U I	2019-07-11	2020-07-10	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11	
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16	
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11	
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31	
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31	



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DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

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	2017-08-05	2020-08-04
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018-09-25	2019-09-24
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
On avial Oakla	000	N1/A	OFM000 04	2018-07-12	2019-07-11
Coaxial Cable	SGS	N/A	SEM026-01	2017-08-05 2020-08-04 2018-09-25 2019-09-24 2017-06-27 2020-06-26 2019-04-01 2020-03-31 N/A N/A	

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
0 1-1 0 - 1 1 -	000	N/A SEM026-01 2018-07-12 2019-		2019-07-11	
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018-09-25	2019-09-24
Pre-Amplifier (0.1-26.5GHz)	Pre-Amplifier Compliance Directions Systems		SEM004-11	2018-11-12	2019-11-11
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2019-04-01	2020-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019-04-01	2020-03-31



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DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

General used equipmen	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	2018-09-27	2019-09-26					
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26					
Humidity/ Temperature Mingle		N/A	SEM002-08	2018-09-27	2019-09-26					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03					



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Radio Spectrum Technical Requirement 6

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 1dBi.

Antenna location: Refer to Appendix(Internal photos)



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Radio Spectrum Matter Test Results 7

20dB Bandwidth

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

Limit: N/A

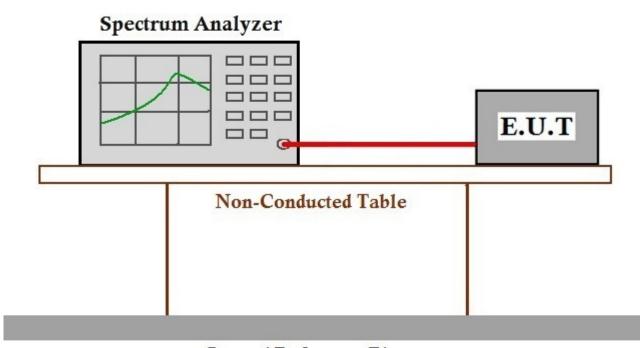
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 55.1 % RH Atmospheric Pressure: 1005 mbar

Test mode a:TX mode Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.2981	Pass
Middle	1.2901	Pass
Highest	1.2821	Pass



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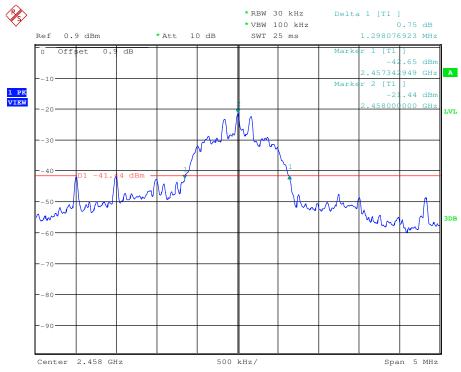
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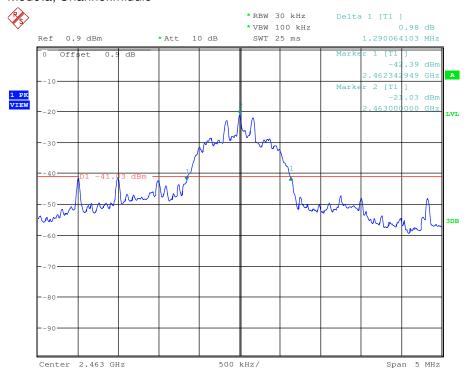
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Mode:a; Channel:Low



Mode:a; Channel:middle





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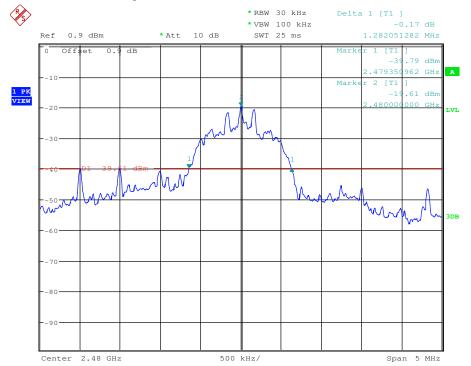
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Mode:a; Channel:High





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

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

Measurement Distance: 3m

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)		
902-928	50	500		
2400-2483.5	50	500		
5725-5875	50	500		
24000-24250	250	2500		

Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.



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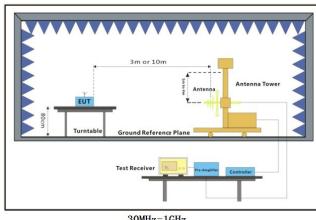
7.2.1 E.U.T. Operation

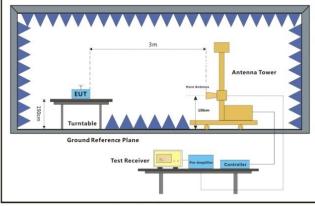
Operating Environment:

Temperature: 23.5 °C Humidity: 57.5 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz

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.

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



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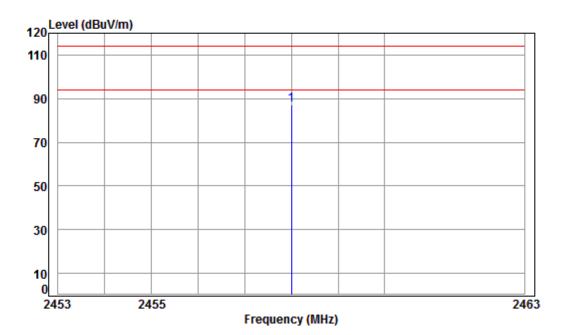
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 15180CR

Mode : 2458 Field Strength

Cable Ant Preamp Read Limit Over

Freq Loss Factor Factor Level Level Line Limit Remark

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

1 pp 2458.000 5.57 29.28 41.90 94.17 87.12 114.00 -26.88 peak



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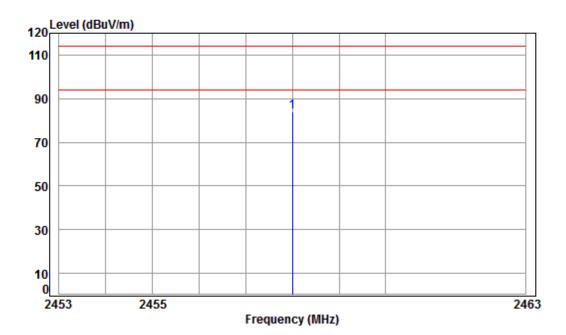
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL
Job No : 15180CR

Mode : 2458 Field Strength

Cable Ant Preamp Read Limit Over

Freq Loss Factor Factor Level Level Line Limit Remark

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

1 pp 2458.000 5.57 29.28 41.90 91.11 84.06 114.00 -29.94 peak



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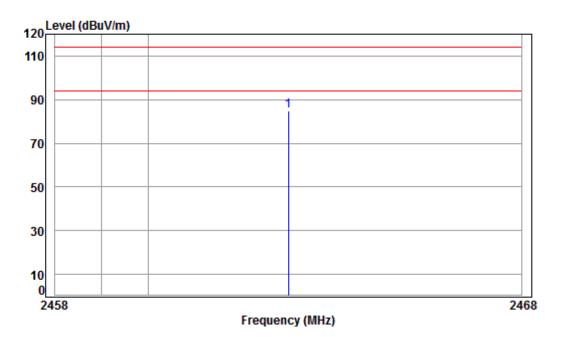
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No : 15180CR

Mode : 2463 Field Strength

> Cable Ant Preamp Read Limit 0ver

Loss Factor Factor Level Level Line Limit Remark

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

1 pp 2463.000 5.57 29.29 41.90 91.99 84.95 114.00 -29.05 Peak



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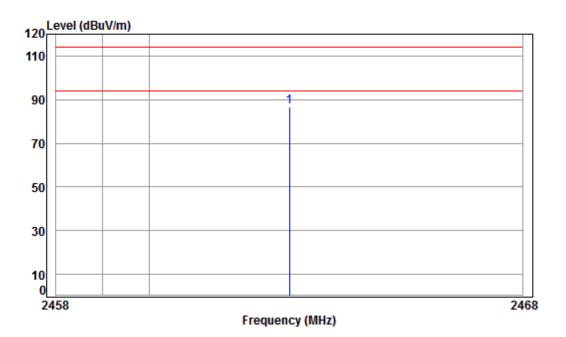
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Condition: 3m VERTICAL Job No : 15180CR

Mode : 2463 Field Strength

> Cable Ant Preamp Read Limit 0ver

Loss Factor Factor Level Level Line Limit Remark

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

1 pp 2463.000 5.57 29.29 41.90 93.74 86.70 114.00 -27.30 Peak



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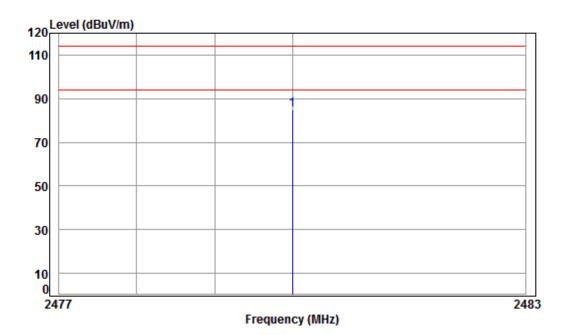
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 15180CR

Mode : 2480 Field Strength

Cable Ant Preamp Read Limit Over

Freq Loss Factor Factor Level Level Line Limit Remark

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

1 pp 2480.000 5.59 29.34 41.91 91.95 84.97 114.00 -29.03 peak



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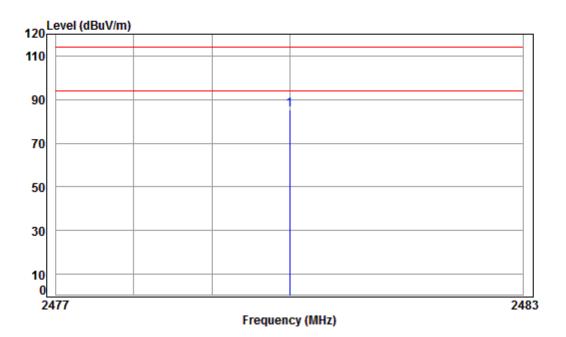
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL Job No : 15180CR

Mode : 2480 Field Strength

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

1 pp 2480.000 5.59 29.34 41.91 92.15 85.17 114.00 -28.83 peak

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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7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.



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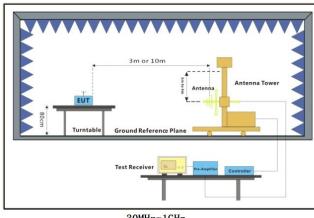
7.3.1 E.U.T. Operation

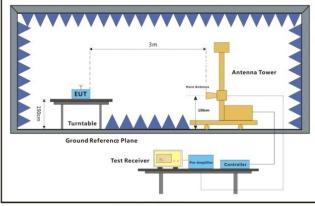
Operating Environment:

Temperature: 23.5 °C 57.4 % RH Atmospheric Pressure: 1010 mbar Humidity:

Test mode a:TX mode Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz

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.

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



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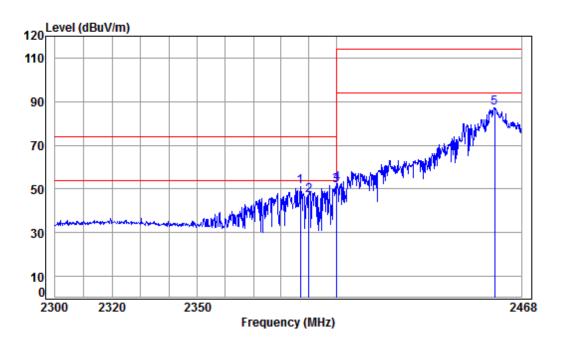
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 15180CR

Mode : 2458 Band edge

			6-							
		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	2386.891	5.47	29.07	41.87	58.56	51.23	74.00	-22.77	peak	
2	2390.000	5.47	29.08	41.87	54.25	46.93	74.00	-27.07	peak	
3	2399.883	5.49	29.11	41.88	58.80	51.52	74.00	-22.48	peak	
4 pp	2400.000	5.49	29.11	41.88	59.76	52.48	74.00	-21.52	peak	
5	2458,000	5.57	29.28	41.90	94 17	87.12	114.00	-26.88	neak	



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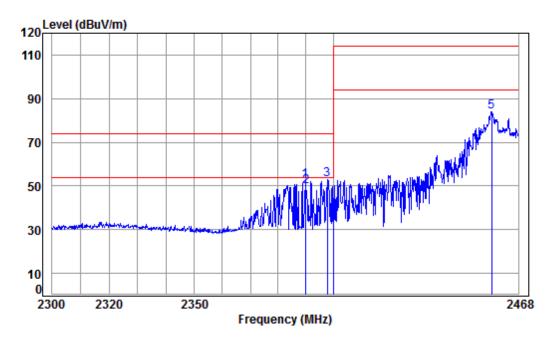
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL Job No : 15180CR

Mode : 2458 Band edge

ouc	. 245	o Dania	Cugc							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.753	5.47	29.08	41.87	59.69	52.37	74.00	-21.63	peak	
2	2390.000	5.47	29.08	41.87	57.02	49.70	74.00	-24.30	peak	
3 pp	2397.685	5.49	29.10	41.88	60.05	52.76	74.00	-21.24	peak	
4	2400.000	5.49	29.11	41.88	45.82	38.54	74.00	-35.46	peak	
5	2458.000	5.57	29.28	41.90	91.11	84.06	114.00	-29.94	peak	



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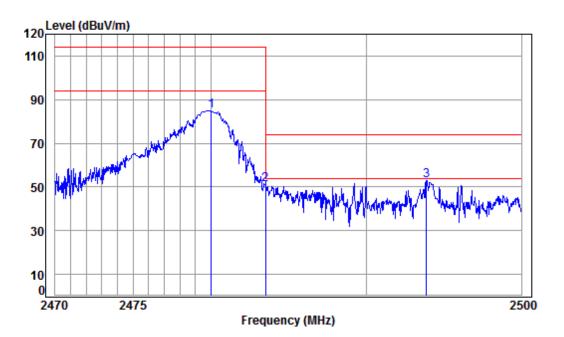
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

: 15180CR Job No

Mode : 2480 Band edge

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2480.000	5.59	29.34	41.91	91.95	84.97	114.00	-29.03	peak
2		2483.500	5.60	29.35	41.91	57.88	50.92	74.00	-23.08	peak
3	pp	2493.851	5.61	29.38	41.91	59.67	52.75	74.00	-21.25	peak



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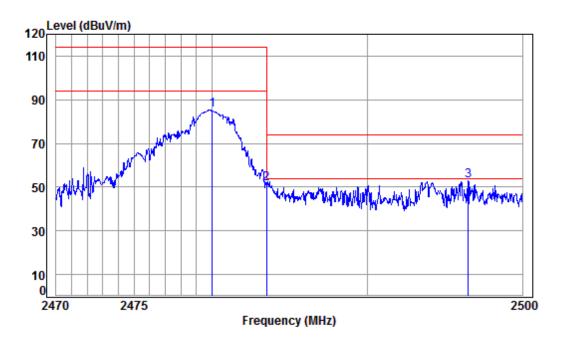
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL Job No : 15180CR

Mode : 2480 Band edge

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2480.000								•
2483.500 pp 2496.501								•

Remark:

1 2 3

3) 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

4) 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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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



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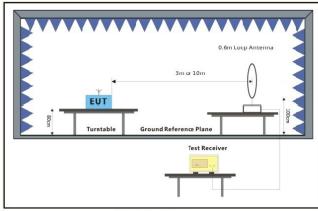
7.4.1 E.U.T. Operation

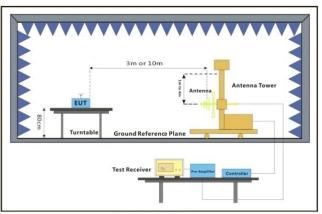
Operating Environment:

Temperature: 23.5 °C Humidity: 57.4 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode Keep the EUT in transmitting with modulation mode.

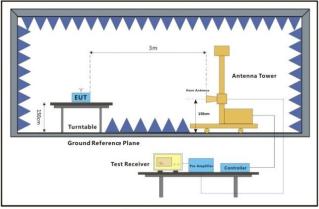
7.4.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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7.4.3 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.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) 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

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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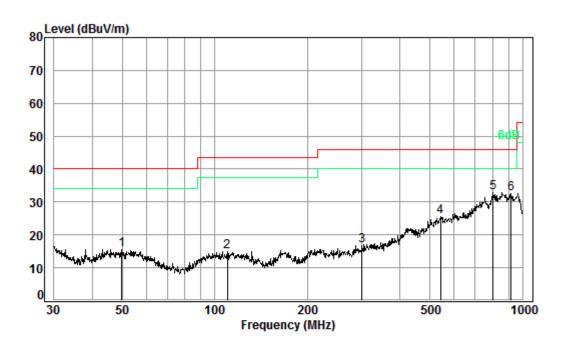
Report No.: SZEM190601518002

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30MHz~1GHz

QP value:

Mode: a; Polarization: Horizontal



Condition: 3m HORIZONTAL

Job No. : 15180CR

Test mode: a

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	49.88	0.80	14.24	27.60	28.05	15.49	40.00	-24.51
2	109.80	1.23	13.54	27.51	27.58	14.84	43.50	-28.66
3	300.37	1.90	19.61	27.54	22.87	16.84	46.00	-29.16
4	541.37	2.64	25.47	27.80	25.15	25.46	46.00	-20.54
5 pp	801.79	3.21	28.52	27.41	28.62	32.94	46.00	-13.06
6	919.29	3.62	29.90	27.02	26.07	32.57	46.00	-13.43



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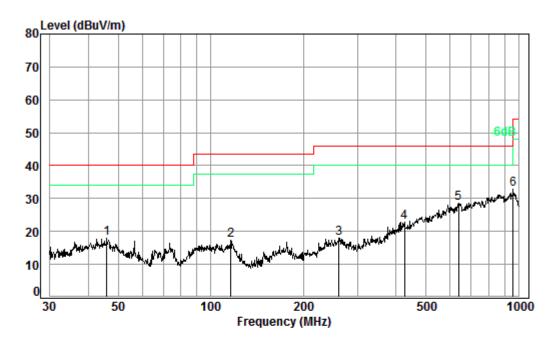
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Mode: a; Polarization: Vertical



Condition: 3m VERTICAL Job No. : 15180CR

Test mode: a

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
4	45.00	0.73	45 40	27.64	20. 27	47.07	40.00	22.02
1	45.86	0.73	15.48	27.61	29.37	17.97	40.00	-22.03
2	116.13	1.25	13.26	27.51	30.45	17.45	43.50	-26.05
3	261.06	1.73	19.08	27.54	24.79	18.06	46.00	-27.94
4	426.52	2.32	23.03	27.77	25.29	22.87	46.00	-23.13
5	638.37	2.78	27.12	27.64	26.48	28.74	46.00	-17.26
6 nn	958 79	3 66	30 10	26 89	25 85	32 72	46 99	-13 28



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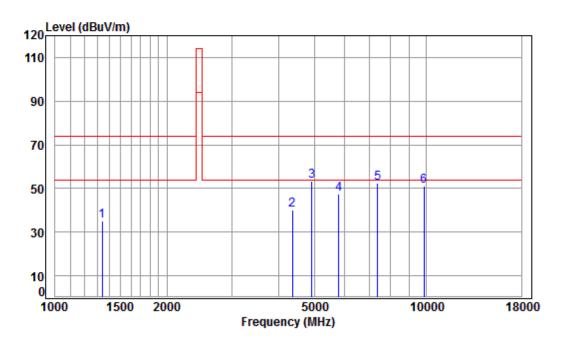


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Above 1GHz

Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 15180CR Mode : 2458 TX SE

		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	1339.006	4.94	25.13	41.29	46.28	35.06	74.00	-38.94	peak
2	4354.454	7.40	33.60	42.39	41.66	40.27	74.00	-33.73	peak
3 pp	4916.000	8.00	34.36	42.49	53.42	53.29	74.00	-20.71	peak
4	5797.032	9.89	34.58	41.78	44.67	47.36	74.00	-26.64	peak
5	7374.000	10.03	36.35	40.60	46.83	52.61	74.00	-21.39	peak
6	9832.000	10.86	37.57	37.43	39.92	50.92	74.00	-23.08	peak



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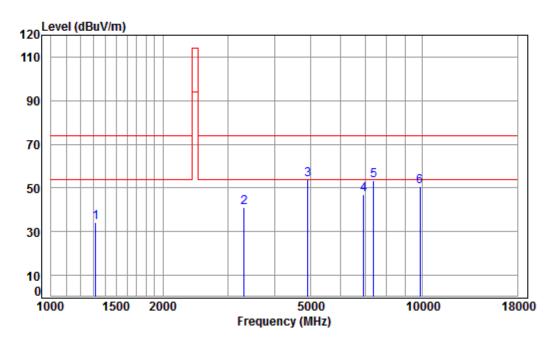
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Mode:a; Polarization: Vertical; Modulation: GFSK; ; Channel: Low



Condition: 3m VERTICAL Job No : 15180CR Mode 2458 TX SF

oue	. 245	0 17 2							
		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	1319.794	4.87	25.04	41.28	45.79	34.42	74.00	-39.58	peak
2	3308.894	6.29	31.87	42.18	45.12	41.10	74.00	-32.90	peak
3 pp	4916.000	8.00	34.36	42.49	53.91	53.78	74.00	-20.22	peak
4	6934.778	10.31	36.32	40.90	41.15	46.88	74.00	-27.12	peak
5	7374.000	10.03	36.35	40.60	47.82	53.60	74.00	-20.40	peak
6	9832.000	10.86	37.57	37.43	39.56	50.56	74.00	-23.44	peak



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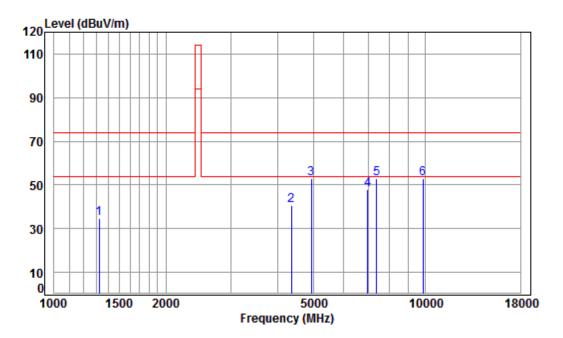
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No : 15180CR Mode · 2463 TX SF

loue	. 240	כ או כ	L						
		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	1323.614	4.88	25.06	41.28	45.87	34.53	74.00	-39.47	peak
2	4354.454	7.40	33.60	42.39	41.81	40.42	74.00	-33.58	peak
3 рр	4926.000	8.01	34.37	42.49	53.16	53.05	74.00	-20.95	peak
4	6974.982	10.20	36.43	40.87	42.02	47.78	74.00	-26.22	peak
5	7389.000	10.03	36.34	40.59	47.05	52.83	74.00	-21.17	peak
6	9852.000	10.87	37.57	37.40	41.85	52.89	74.00	-21.11	peak



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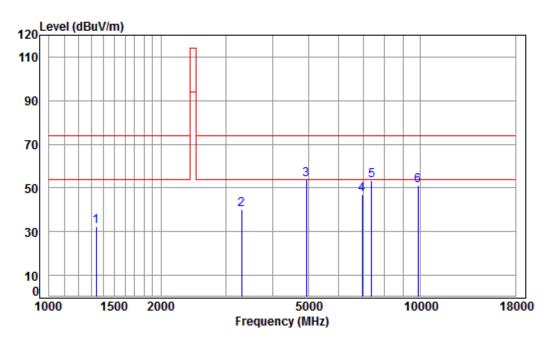
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Condition: 3m VERTICAL Job No : 15180CR . 2463 TY CE Mode

loae	: 246	3 IX S	E						
		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	1339.006	4.94	25.13	41.29	43.67	32.45	74.00	-41.55	peak
2	3299.344	6.28	31.86	42.17	44.02	39.99	74.00	-34.01	peak
3 рр	4926.000	8.01	34.37	42.49	54.01	53.90	74.00	-20.10	peak
4	6954.852	10.25	36.38	40.89	41.41	47.15	74.00	-26.85	peak
5	7389.000	10.03	36.34	40.59	47.73	53.51	74.00	-20.49	peak
6	9852.000	10.87	37.57	37.40	40.21	51.25	74.00	-22.75	peak



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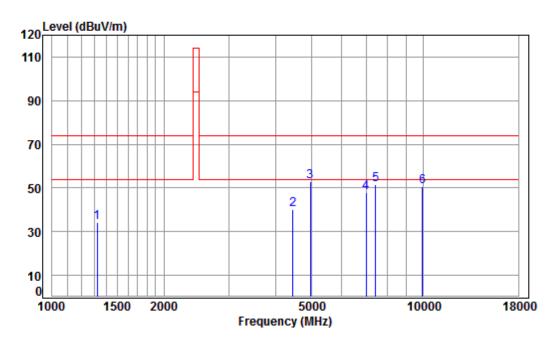
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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

: 15180CR Job No Mode : 2480 TX SF

ouc	. 240	0 1/ 3	L						
		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	1323.614	4.88	25.06	41.28	45.65	34.31	74.00	-39.69	peak
2	4456.315	7.51	33.60	42.41	41.51	40.21	74.00	-33.79	peak
3 pp	4960.000	8.05	34.43	42.49	53.01	53.00	74.00	-21.00	peak
4	6995.172	10.14	36.49	40.86	42.17	47.94	74.00	-26.06	peak
5	7440.000	10.02	36.32	40.56	45.75	51.53	74.00	-22.47	peak
6	9920.000	10.90	37.58	37.31	39.58	50.75	74.00	-23.25	peak



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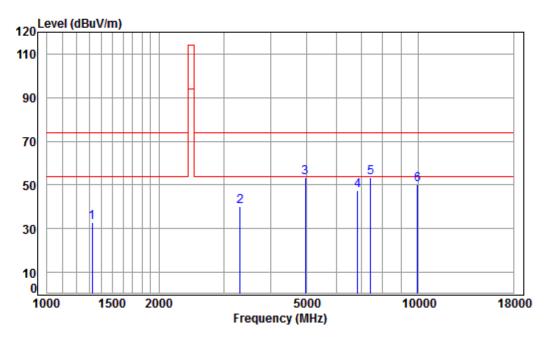
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Mode:a; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL Job No : 15180CR Mode : 2480 TX SE

			_						
		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	1323.614	4.88	25.06	41.28	44.13	32.79	74.00	-41.21	peak
2	3308.894	6.29	31.87	42.18	44.30	40.28	74.00	-33.72	peak
3	4960.000	8.05	34.43	42.49	53.25	53.24	74.00	-20.76	peak
4	6855.063	10.53	36.10	40.96	41.62	47.29	74.00	-26.71	peak
5 p	p 7440.000	10.02	36.32	40.56	47.75	53.53	74.00	-20.47	peak
6	9920.000	10.90	37.58	37.31	38.98	50.15	74.00	-23.85	peak



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Report No.: SZEM190601518002

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Photographs 8

Test Setup

Refer to Setup Photos

8.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos

- End of the Report -



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