

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: HKES180400088401

Fax: +86 (0) 755 2671 0594 Page: 1 of 39

### TEST REPORT

Application No.: HKES1804000884IT

Applicant: Mattel Asia Pacific Sourcing Ltd.

Address of Applicant: 13/F., South Tower, World Finance Centre, Harbour City, Tsimshatsui,

Kowloon, Hong Kong

**Equipment Under Test (EUT):** 

**EUT Name:** Hot Wheels RC Trick Truck Transforming Stunt Park

Item No.: FRL17T
Associated Toy number: FRL17

FCC ID: PIYFRL17-18A5T

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

**Date of Receipt:** 2018-04-19

**Date of Test:** 2018-04-25 to 2018-04-27

**Date of Issue:** 2018-05-03

Test Result: Pass\*



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.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sqs.com/en/Terms-and-Conditions.aspx">http://www.sqs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sqs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sqs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's intengray's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: HKES180400088401

Page: 2 of 39

	Revision Record					
Version	Version Chapter Date Modifier Rem					
01		2018-05-03		Original		

Authorized for issue by:		
	Co. 61	
	Leo Li /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



Report No.: HKES180400088401

Page: 3 of 39

### 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		



Report No.: HKES180400088401

Page: 4 of 39

### 3 Contents

			raye
1	COVE	R PAGE	1
2	TEST	SUMMARY	3
_	1201	OOMMALL	
3	CONT	ENTS	4
4	GENE	RAL INFORMATION	5
	4.1 C	DETAILS OF E.U.T	5
		DESCRIPTION OF SUPPORT UNITS	
		MEASUREMENT UNCERTAINTY	
		EST LOCATION	
	4.5 T	EST FACILITY	7
	4.6 D	DEVIATION FROM STANDARDS	7
	4.7 A	ABNORMALITIES FROM STANDARD CONDITIONS	7
5	FOLIIE	PMENT LIST	8
Ü	LGOII		
6	RADIO	SPECTRUM TECHNICAL REQUIREMENT	11
	6.1 A	ANTENNA REQUIREMENT	11
	6.1.1	Test Requirement:	
	6.1.2	Conclusion	11
7	RADIO	SPECTRUM MATTER TEST RESULTS	12
	7.1 2	ODB BANDWIDTH	12
	7.1.1	E.U.T. Operation	
	7.1.2	Test Setup Diagram	
	7.1.3	Measurement Procedure and Data	12
	7.2 F	FIELD STRENGTH OF THE FUNDAMENTAL SIGNAL (15.249(A))	
	7.2.1	E.U.T. Operation	
	7.2.2	Test Setup Diagram	
	7.2.3	Measurement Procedure and Data	
		RESTRICTED BAND AROUND FUNDAMENTAL FREQUENCY	
	7.3.1	E.U.T. Operation	
	7.3.2	Test Setup Diagram	
	7.3.3	Measurement Procedure and Data	
		RADIATED EMISSIONS	
	7.4.1 7.4.2	E.U.T. Operation	
	7.4.2 74.3	Test Setup Diagram	
	/.4.0	WEGSUIEUEU   106EUUE GUU DAIG	



Report No.: HKES180400088401

Page: 5 of 39

### 4 General Information

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

Power supply:	4.5V DC(1.5Vx3"AA" Size Batteries)
Test voltage:	DC 4.5V
Antenna Gain	1.4dBi
Antenna Type	Monopole
Modulation Type	GFSK
Number of Channels	40
Operation Frequency	2413MHz~2475MHz

#### **Channel List:**

	••						
1	2413MHz	13	2435MHz	25	2454MHz	37	2471MHz
2	2419MHz	14	2436MHz	26	2455MHz	38	2473MHz
3	2420MHz	15	2438MHz	27	2456MHz	39	2474MHz
4	2421MHz	16	2439MHz	28	2457MHz	40	2475MHz
5	2422MHz	17	2440MHz	29	2458MHz		
6	2423MHz	18	2441MHz	30	2459MHz		
7	2424MHz	19	2443MHz	31	2460MHz		
8	2425MHz	20	2444MHz	32	2461MHz		
9	2426MHz	21	2445MHz	33	2467MHz		
10	2427MHz	22	2451MHz	34	2468MHz		
11	2428MHz	23	2452MHz	35	2469MHz		
12	2429MHz	24	2453MHz	36	2470MHz		

Using test software was control EUT work in continuous transmitter and receiver mode.and select test channel as below:

Channel	Frequency
The lowest channel (CH1)	2413MHz
The middle channel (CH20)	2444MHz
The highest channel (CH40)	2475MHz



Report No.: HKES180400088401

Page: 6 of 39

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

### 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 Dadiated naver	4.5dB (below 1GHz)
1	RF Radiated power	4.8dB (above 1GHz)
8	Padiated Spurious emission test	4.5dB (Below 1GHz)
0	Radiated Spurious emission test	4.8dB (Above 1GHz)
9	Temperature test	1℃
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%



Report No.: HKES180400088401

Page: 7 of 39

#### 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.

#### 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



Report No.: HKES180400088401

Page: 8 of 39

### 5 Equipment List

20dB Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-09-27	2018-09-26	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2017-09-27	2018-09-26	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2017-07-13	2018-07-12	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2017-09-27	2018-09-26	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2017-09-27	2018-09-26	

Field Strength of the Fu	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	2018-03-13	2021-03-12			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12			
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01			
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	2017-09-27	2018-09-26			
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27			
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01			
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01			
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26			
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21			
Band filter	N/A	N/A	SEM023-01	N/A	N/A			

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	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions-Terms-e-Document.aspx">http://www.sgs.com/en/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Report No.: HKES180400088401

Page: 9 of 39

Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01
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	2017-09-27	2018-09-26
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	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
Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01
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	8447D SEM005-02		2018-09-26
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	N/A	N/A

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sqs.com/en/Terms-and-Conditions.aspx">http://www.sqs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sqs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sqs.com/en/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Report No.: HKES180400088401

Page: 10 of 39

Radiated Emissions (be	low 1GHz)					
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	gilent Technologies N9038A SEM004-05			2018-09-26	
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	2018-04-02	2019-04-01	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12	

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	2017-09-29	2018-09-28					
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28					
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07					



Report No.: HKES180400088401

Page: 11 of 39

### 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 Limit:

### 15.203 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 shall be considered sufficient to comply with the provisions of this section. 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.

#### 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 shall be considered sufficient to comply with the provisions of this section. 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 1.4dBi.

Antenna location: Refer to Appendix(Internal photos)



Report No.: HKES180400088401

Page: 12 of 39

### 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

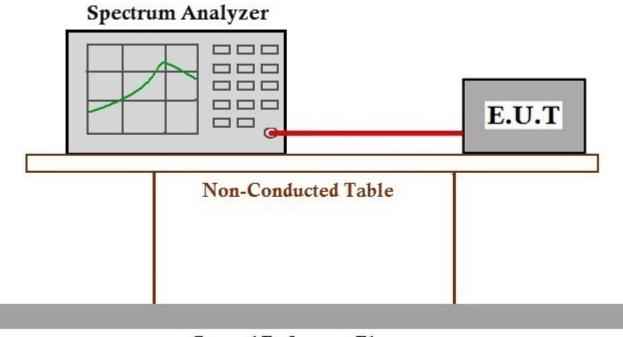
### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 57.7 % RH Atmospheric Pressure: 1020 mbar

Test mode b: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

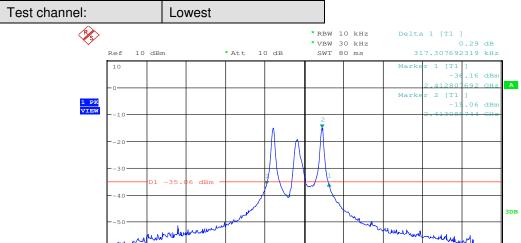
Test Channel	20dB bandwidth (KHz)	Results		
Lowest	317.31	Pass		
Middle	314.10	Pass		
Highest	317.31	Pass		

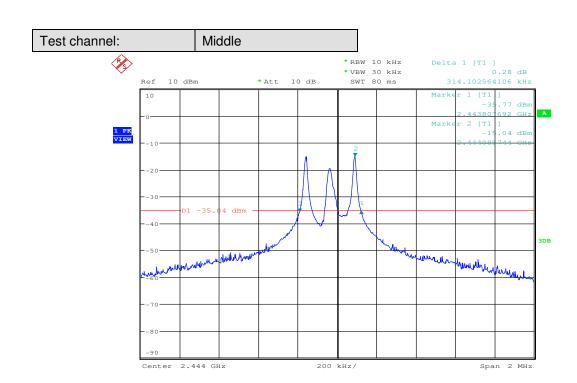


Report No.: HKES180400088401

Page: 13 of 39

### Test plot as follows:

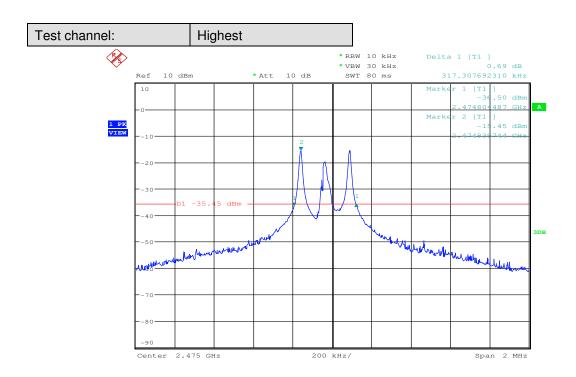






Report No.: HKES180400088401

Page: 14 of 39





Report No.: HKES180400088401

Page: 15 of 39

### 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:

Frequency	Limit (dBuV/m @3m)	Remark
2400MHz-2483.5MHz	94.0	Average Value
2400WITZ-2463.3WITZ	114.0	Peak Value



Report No.: HKES180400088401

Page: 16 of 39

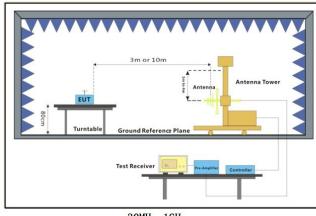
### 7.2.1 E.U.T. Operation

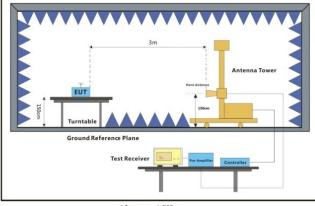
Operating Environment:

Temperature: 22.1 °C Humidity: 58.6 % RH Atmospheric Pressure: 1020 mbar

Test mode b: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.

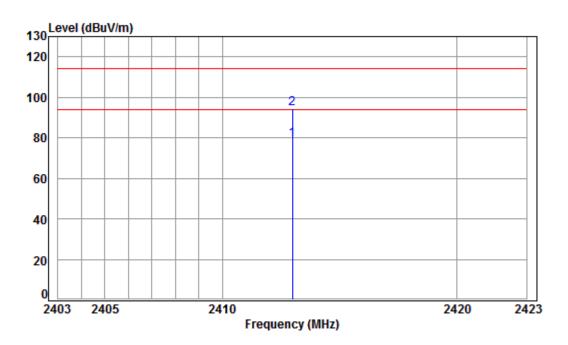
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Report No.: HKES180400088401

Page: 17 of 39

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



Condition: 3m HORIZONTAL

Job No : 00884IT

Mode : 2413 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

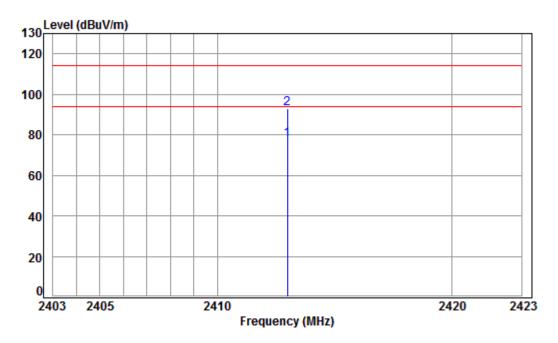
1 pp 2413.000 5.51 29.15 41.88 86.09 78.87 94.00 -15.13 Average 2 pk 2413.000 5.51 29.15 41.88 101.50 94.28 114.00 -19.72 peak



Report No.: HKES180400088401

Page: 18 of 39

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



Condition: 3m VERTICAL

Job No : 00884IT

Mode : 2413 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

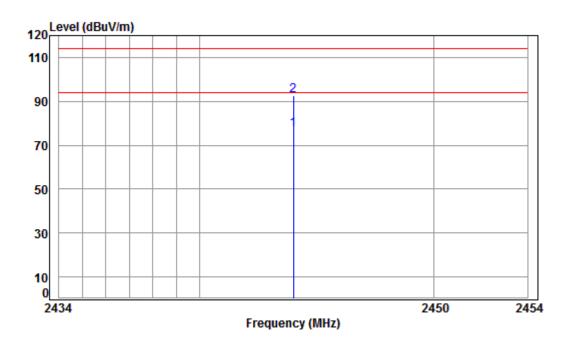
1 pp 2413.000 5.51 29.15 41.88 84.83 77.61 94.00 -16.39 Average 2 pk 2413.000 5.51 29.15 41.88 100.25 93.03 114.00 -20.97 peak



Report No.: HKES180400088401

Page: 19 of 39

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



Condition: 3m HORIZONTAL

Job No : 00884IT

Mode : 2444 Field strength

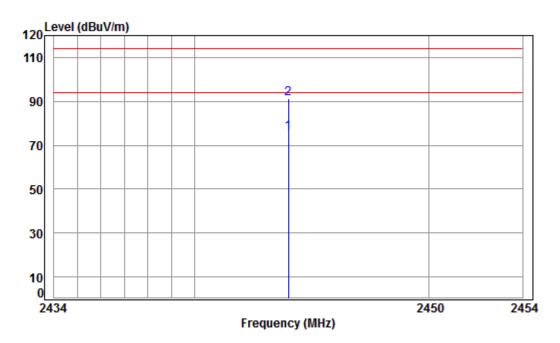
ouc	Freq	Cable	Ant	Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2444.000 2444.000								_



Report No.: HKES180400088401

Page: 20 of 39

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



Condition: 3m VERTICAL

Job No : 00884IT

2 pk 2444.000

Mode : 2444 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 dBuV/m dB

1 pp 2444.000 5.55 29.24 41.89 82.80 75.70 94.00 -18.30 Average

5.55 29.24 41.89 98.22 91.12 114.00 -22.88 Peak

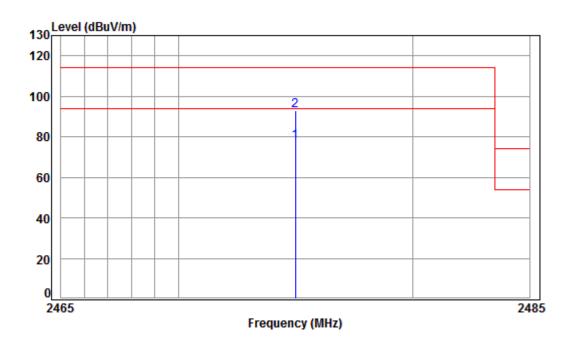
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-



Report No.: HKES180400088401

Page: 21 of 39

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



Condition: 3m HORIZONTAL

Job No : 00884IT

Mode : 2475 Field strength

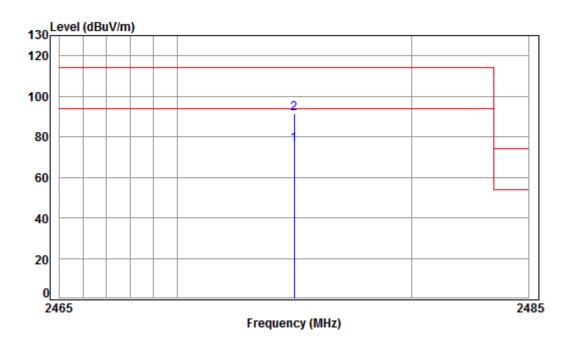
Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
 2475.000 2475.000								_



Report No.: HKES180400088401

Page: 22 of 39

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



Condition: 3m VERTICAL

Job No : 00884IT

Mode : 2475 Field strength

Ju	_	Freq	Cable	Ant	Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
		2475.000 2475.000								_	



Report No.: HKES180400088401

Page: 23 of 39

### 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.



Report No.: HKES180400088401

Page: 24 of 39

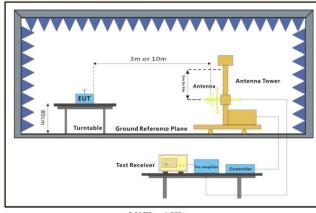
### 7.3.1 E.U.T. Operation

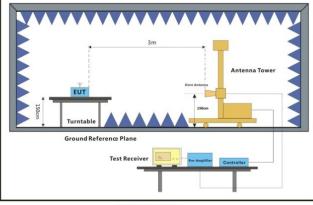
Operating Environment:

Temperature: 20.2 °C Humidity: 57 % RH Atmospheric Pressure: 1020 mbar

Test mode b: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.

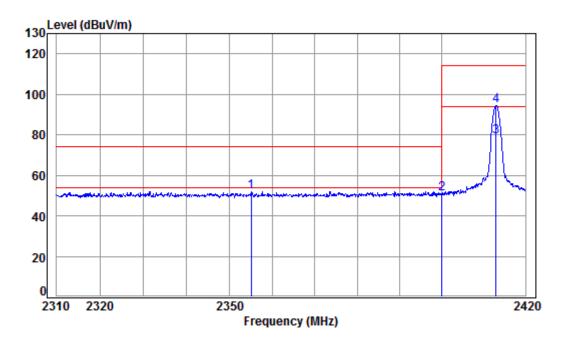
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Report No.: HKES180400088401

Page: 25 of 39

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



Condition: 3m HORIZONTAL

Job No : 00884IT

Mode : 2413 Band edge

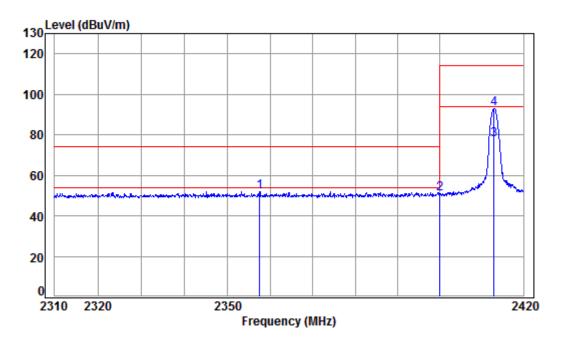
	F				Read				DI-
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2355.030	5.43	28.97	41.86	59.53	52.07	74.00	-21.93	peak
2	2400.000	5.49	29.11	41.88	58.17	50.89	74.00	-23.11	peak
3 pp	2413.000	5.51	29.15	41.88	86.09	78.87	94.00	-15.13	Average
4 pk	2413.000	5.51	29.15	41.88	101.50	94.28	114.00	-19.72	neak



Report No.: HKES180400088401

Page: 26 of 39

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



Condition: 3m VERTICAL

Job No : 00884IT

Mode : 2413 Band edge

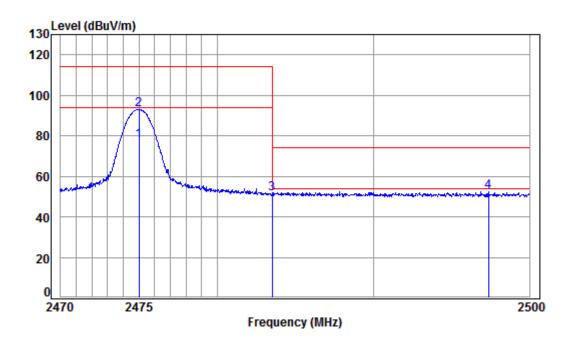
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2357.551	5.43	28.98	41.86	59.46	52.01	74.00	-21.99	peak
2		2400.000	5.49	29.11	41.88	58.35	51.07	74.00	-22.93	peak
3	pp	2413.000	5.51	29.15	41.88	84.83	77.61	94.00	-16.39	Average
4	pk	2413.000	5.51	29.15	41.88	100.25	93.03	114.00	-20.97	peak



Report No.: HKES180400088401

Page: 27 of 39

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



Condition: 3m HORIZONTAL

Job No : 00884IT

Mode : 2475 Band edge

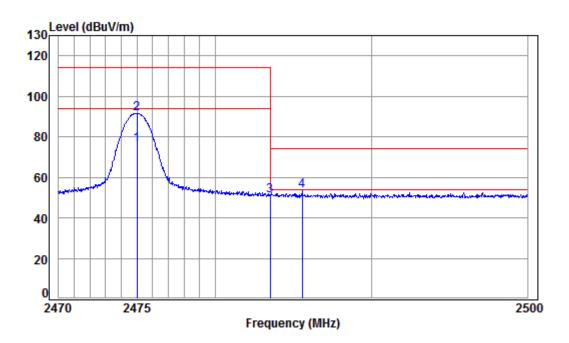
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	2475.000	5.59	29.33	41.91	84.52	77.53	94.00	-16.47	Average
2	pk	2475.000	5.59	29.33	41.91	99.93	92.94	114.00	-21.06	peak
3		2483.500	5.60	29.35	41.91	58.31	51.35	74.00	-22.65	peak
4		2497.375	5.62	29.39	41.92	59.21	52.30	74.00	-21.70	peak



Report No.: HKES180400088401

Page: 28 of 39

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



Condition: 3m VERTICAL Job No : 00884IT

Mode : 2475 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	рр	2475.000	5.59	29.33	41.91	83.14	76.15	94.00	-17.85	Average
2		2475.000	5.59	29.33	41.91	98.55	91.56	114.00	-22.44	peak
3		2483.500	5.60	29.35	41.91	57.86	50.90	74.00	-23.10	peak
4	pk	2485.555	5.60	29.36	41.91	60.33	53.38	74.00	-20.62	peak



Report No.: HKES180400088401

Page: 29 of 39

### 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	5-30 30		-	30
30-88	30-88 100		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



Report No.: HKES180400088401

Page: 30 of 39

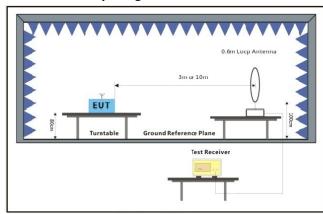
### 7.4.1 E.U.T. Operation

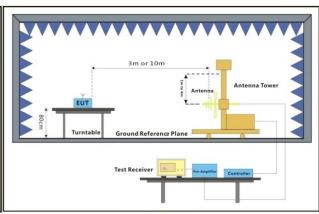
Operating Environment:

Temperature: 22.1 °C Humidity: 58.7 % RH Atmospheric Pressure: 1020 mbar

Test mode b:TX mode\_Keep the EUT in transmitting with modulation mode.

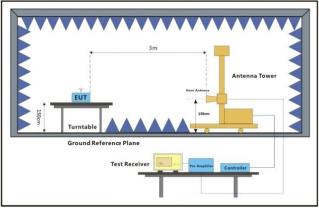
### 7.4.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz

### 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.



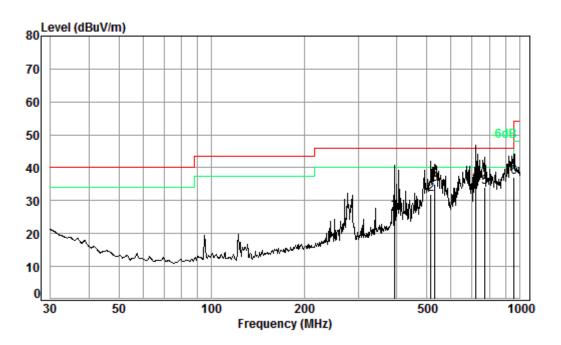
Report No.: HKES180400088401

Page: 31 of 39

#### Radiated emission below 1GHz

QP value:

Mode:b; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 00884IT

Test mode: b

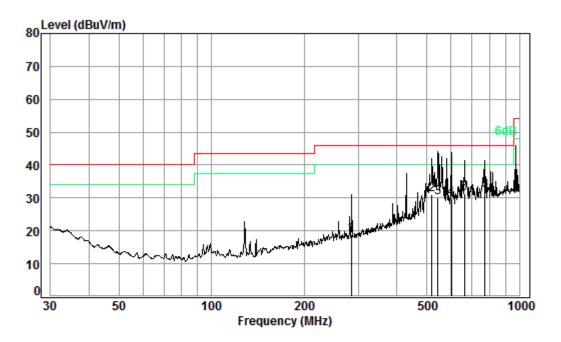
				Preamp				0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
-	MHz	——dB		dB		dRuV/m	dBuV/m	——dB
	11112	ub	ub/iii	ub	abav	ubuv/iii	ubuv/III	ub
1	392.10	2.18	22.21	27.72	30.22	26.89	46.00	-19.11
2	515.44	2.62	24.93	27.85	32.32	32.02	46.00	-13.98
3	531.96	2.63	25.28	27.82	35.02	35.11	46.00	-10.89
4 pp	721.73	2.97	28.04	27.52	32.30	35.79	46.00	-10.21
5	774.16	3.13	28.35	27.45	30.05	34.08	46.00	-11.92
6	962.16	3.66	30.12	26.88	30.15	37.05	54.00	-16.95



Report No.: HKES180400088401

Page: 32 of 39

Mode:b; Polarization:Vertical;



Condition: 3m VERTICAL

Job No. : 00884IT

Test mode: b

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
						<del></del>		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
4	204.00	4 04	40.00	27.54	25 60	40.00	46.00	27.02
1	284.98	1.84	19.00	27.54	25.68	18.98	46.00	-27.02
2	519.06	2.62	25.01	27.84	31.33	31.12	46.00	-14.88
3	543.27	2.65	25.51	27.80	29.62	29.98	46.00	-16.02
4	601.43	2.70	26.62	27.70	28.22	29.84	46.00	-16.16
5	663.47	2.83	27.45	27.60	28.75	31.43	46.00	-14.57
6 p	p 774.16	3.13	28.35	27.45	28.33	32.36	46.00	-13.64

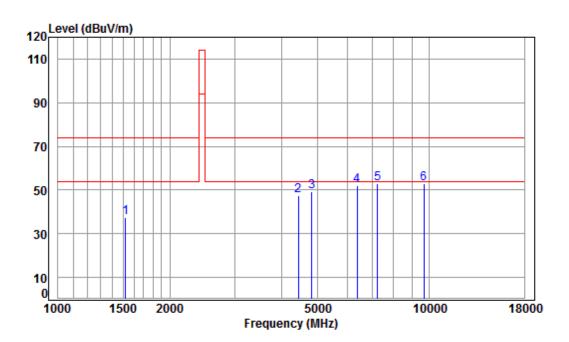


Report No.: HKES180400088401

Page: 33 of 39

#### Transmitter emission above 1GHz

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



Condition: 3m HORIZONTAL

Job No : 00884IT

Mode : 2413 TX RSE

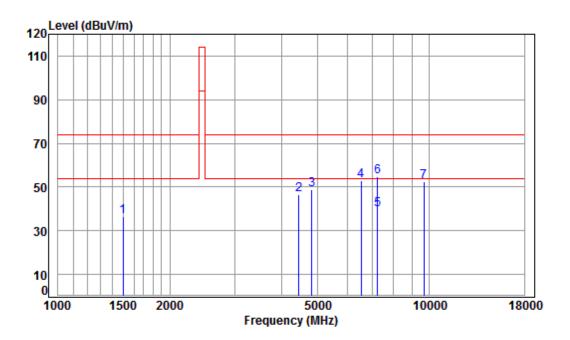
		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1520.598	5.45	25.89	41.42	47.40	37.32	74.00	-36.68	peak
2		4443.453	7.50	33.60	42.41	48.90	47.59	74.00	-26.41	peak
3		4826.000	7.91	34.19	42.47	49.49	49.12	74.00	-24.88	peak
4		6377.195	11.31	35.00	41.31	47.14	52.14	74.00	-21.86	peak
5		7239.000	10.07	36.40	40.69	46.97	52.75	74.00	-21.25	peak
6	pp	9652.000	10.77	37.53	37.68	42.19	52.81	74.00	-21.19	peak



Report No.: HKES180400088401

Page: 34 of 39

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



Condition: 3m VERTICAL

Job No : 00884IT

Mode : 2413 TX RSE

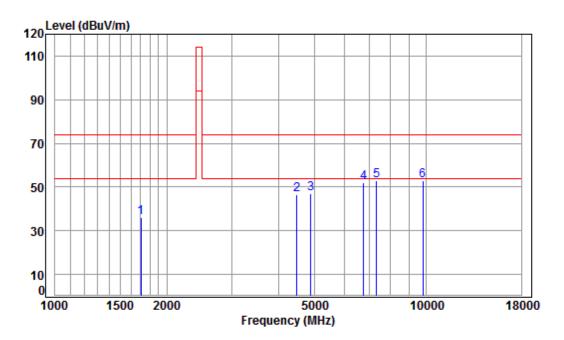
	Enga			Preamp Factor					Romank
	rreq	L033	ractor	ractor	rever	rever	LINE	LIMIC	Kelliai K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	5.48	25.80	41.41	46.58	36.45	74.00	-37.55	peak
2	4456.315	7.51	33.60	42.41	47.92	46.62	74.00	-27.38	peak
3	4824.000	7.91	34.19	42.47	49.33	48.96	74.00	-25.04	peak
4	6545.263	11.41	35.23	41.18	47.28	52.74	74.00	-21.26	peak
5 pp	7239.000	10.07	36.40	40.69	33.69	39.47	54.00	-14.53	Average
6 pk	7239.000	10.07	36.40	40.69	49.09	54.87	74.00	-19.13	peak
7	9652.000	10.77	37.53	37.68	41.70	52.32	74.00	-21.68	peak



Report No.: HKES180400088401

Page: 35 of 39

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



Condition: 3m HORIZONTAL

Job No : 00884IT

Mode : 2444 TX RSE

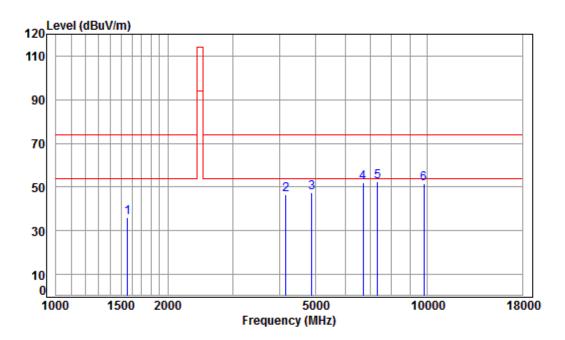
ouc	. 244	T 1/1 11							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	5.23	26.68	41.53	45.81	36.19	74.00	-37.81	peak
2	4482.150	7.54	33.60	42.41	47.73	46.46	74.00	-27.54	peak
3	4888.000	7.98	34.31	42.48	47.24	47.05	74.00	-26.95	peak
4	6776.265	10.75	35.89	41.01	46.59	52.22	74.00	-21.78	peak
5 pp	7332.000	10.04	36.37	40.63	47.26	53.04	74.00	-20.96	peak
6	9776 000	10.83	37.56	37.50	41 92	52.81	74 99	-21 19	neak



Report No.: HKES180400088401

Page: 36 of 39

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



Condition: 3m VERTICAL

Job No : 00884IT

Mode : 2444 TX RSE

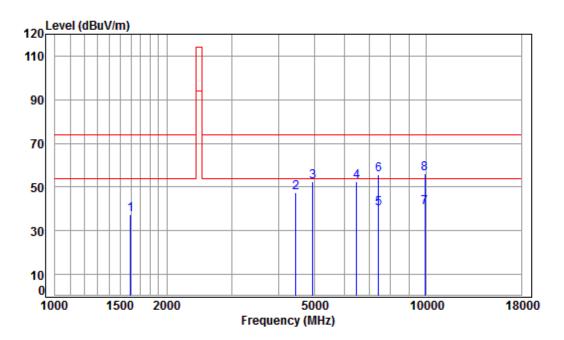
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	5.40	26.08	41.45	45.95	35.98	74.00	-38.02	peak
2	4157.664	7.17	33.60	42.36	48.10	46.51	74.00	-27.49	peak
3	4888.000	7.98	34.31	42.48	47.86	47.67	74.00	-26.33	peak
4	6717.762	10.91	35.72	41.05	46.54	52.12	74.00	-21.88	peak
5 pp	7332.000	10.04	36.37	40.63	46.61	52.39	74.00	-21.61	peak
6	9776.000	10.83	37.56	37.50	40.88	51.77	74.00	-22.23	peak



Report No.: HKES180400088401

Page: 37 of 39

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



Condition: 3m HORIZONTAL

Job No : 00884IT

Mode : 2475 TX RSE

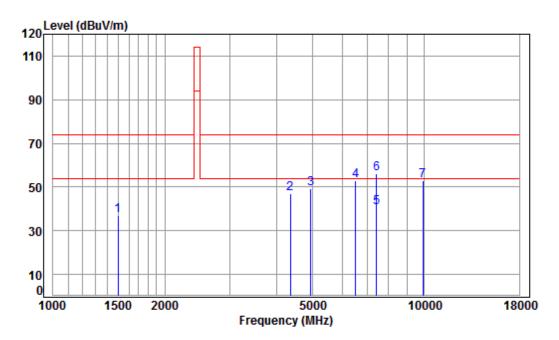
		Cable		Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	5.35	26.24	41.47	47.51	37.63	74.00	-36.37	peak
2	4456.315	7.51	33.60	42.41	48.75	47.45	74.00	-26.55	peak
3	4950.000	8.04	34.41	42.49	52.40	52.36	74.00	-21.64	peak
4	6488.754	11.52	35.09	41.22	47.26	52.65	74.00	-21.35	peak
5	7425.000	10.02	36.33	40.57	34.58	40.36	54.00	-13.64	Average
6	7425.000	10.02	36.33	40.57	49.98	55.76	74.00	-18.24	peak
7 pp	9900.000	10.89	37.58	37.34	29.71	40.84	54.00	-13.16	Average
8 pk	9900.000	10.89	37.58	37.34	45.10	56.23	74.00	-17.77	peak



Report No.: HKES180400088401

Page: 38 of 39

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



Condition: 3m VERTICAL

Job No : 00884IT

Mode : 2475 TX RSE

	F			Preamp					DI-
	Freq	LOSS	Factor	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	5.48	25.80	41.41	46.91	36.78	74.00	-37.22	peak
2	4354.454	7.40	33.60	42.39	48.46	47.07	74.00	-26.93	peak
3	4950.000	8.04	34.41	42.49	49.10	49.06	74.00	-24.94	peak
4	6526.373	11.46	35.18	41.20	47.31	52.75	74.00	-21.25	peak
5 pp	7425.000	10.02	36.33	40.57	34.94	40.72	54.00	-13.28	Average
6 pk	7425.000	10.02	36.33	40.57	50.34	56.12	74.00	-17.88	peak
7	9900.000	10.89	37.58	37.34	41.91	53.04	74.00	-20.96	peak



Report No.: HKES180400088401

Page: 39 of 39

#### Remark:

 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 18GHz 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 above measurement data were shown in the report.

- End of the Report -