



CFR 47 FCC PART 15 SUBPART C ISED RSS-210 ISSUE 10

TEST REPORT

For

TOY Transmitter

MODEL NUMBER: 31HA1

REPORT NUMBER: 4790773898.1-RF-1

ISSUE DATE: March 20, 2023

FCC ID: G6D31HA1

IC: 9650A-31HA1

Prepared for

NEW BRIGHT INDUSTRIAL CO., LTD 9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD, KOWLOON BAY, KOWLOON, HONG KONG.

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 20, 2023	Initial Issue	



Summary of Test Results				
Clause	Test Items	Test Results		
1	20dB Bandwidth and 99% Occupied Bandwidth	CFR 47 FCC §15.215 (c) ISED RSS-Gen Clause 6.7	Pass	
2	Radiated Emission	CFR 47 FCC §15.249 (a)(d)(e) ISED RSS-210 Annex B B.10 CFR 47 FCC §15.205 and §15.209 RSS-GEN Clause 8.9 RSS-GEN Clause 8.10	Pass	
3	Conducted Emission Test for AC Power Port	CFR 47 FCC §15.207 RSS-GEN Clause 8.8	Not Applicable (Note 2)	
4 Antenna Requirement		CFR 47 FCC §15.203 ISED RSS-Gen Clause 6.3 Pass		
Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China. Note 2: The EUT is powered by battery and can't be charged.				

Note 2: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C, ISED RSS-210 ISSUE 10 > when <Accuracy Method> decision rule is applied.



CONTENTS

1. A	TTESTATION OF TEST RESULTS	5
2. T	EST METHODOLOGY	6
3. F.	ACILITIES AND ACCREDITATION	6
4. C	ALIBRATION AND UNCERTAINTY	7
4.1.	MEASURING INSTRUMENT CALIBRATION	7
4.2.	. MEASUREMENT UNCERTAINTY	7
5. E	QUIPMENT UNDER TEST	8
5.1.	DESCRIPTION OF EUT	8
5.2.	. CHANNEL LIST	8
5.3.	. MAXIMUM FIELD STRENGTH	8
5.4.	. TEST CHANNEL CONFIGURATION	8
5.5.	. THE WORSE CASE POWER SETTING PARAMETER	8
5.6.	. DESCRIPTION OF AVAILABLE ANTENNAS	9
5.7.	DESCRIPTION OF TEST SETUP	9
6. M	IEASURING EQUIPMENT AND SOFTWARE USED	10
7. A	NTENNA PORT TEST RESULTS	11
7.1.	. 20DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH	11
7.2.	DUTY CYCLE	15
8. R	ADIATED TEST RESULTS	17
8.1. EMI	. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL	27
8.2.	. SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)	
8.3.		
8.4.		
8.5.		
8.6.	SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)	47
9. A	NTENNA REQUIREMENT	49



1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	NEW BRIGHT INDUSTRIAL CO., LTD
Address:	9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD,
	KOWLOON BAY, KOWLOON, HONG KONG.

Manufacturer Information

Company Name:	NEW BRIGHT INDUSTRIAL CO., LTD
Address:	9/F., NEW BRIGHT BUILDING, 11 SHEUNG YUET ROAD,
	KOWLOON BAY, KOWLOON, HONG KONG.

EUT Information

EUT Name:	TOY Transmitter
Model:	31HA1

Sample Received Date:	March 15, 2023
Sample Status:	Normal
Sample ID:	5883077
Date of Tested:	March 15, 2023 to March 20, 2023

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
CFR 47 FCC PART 15 SUBPART C	PASS			
ISED RSS-210 ISSUE 10	PASS			

Prepared By:

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Denny Huang Senior Project Engineer

Checked By:

Kebo.7

Kebo Zhang Senior Project Engineer

Approved By:

Applientino

Stephen Guo Operations Manager



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, ISED RSS-210 ISSUE 10 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification
Accreditation Certificate	rules ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011

Note 1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty		
Conduction Emission	3.62 dB		
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB		
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB		
Radiated Emission	5.78 dB (1 GHz ~ 18 GHz)		
(Included Fundamental Emission) (1 GHz to 26 GHz)	5.23 dB (18 GHz ~ 26 GHz)		
Duty Cycle	±0.028%		
DTS and 99% Occupied Bandwidth	±0.0196%		
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	TOY Transmitter		
Model	31HA1		
Droduct Description	Operation Frequency	2410 MHz ~ 2473 MHz	
Product Description	Modulation Type	GFSK	
Battery DC 3 V			

5.2. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410	11	2429	21	2450	31	2469
2	2414	12	2430	22	2452	32	2473
3	2415	13	2431	23	2454	/	/
4	2416	14	2433	24	2456	/	/
5	2417	15	2434	25	2458	/	/
6	2418	16	2439	26	2462	/	/
7	2419	17	2441	27	2464	/	/
8	2421	18	2442	28	2465	/	/
9	2426	19	2444	29	2466	/	/
10	2428	20	2446	30	2467	/	/

5.3. MAXIMUM FIELD STRENGTH

Test Mode	Frequency (MHz)	Channel Number	Max Peak field strength (dBµV/m)
GFSK	2410 ~ 2473	1-32[32]	93.45

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
GFSK	CH 1(Low Channel), CH 18(MID Channel), CH 32(High Channel)	2410 MHz, 2442 MHz, 2473 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2410 MHz ~ 2473 MHz Band					
Test Soft	ware Version		/		
Modulation Type Transmit Antenna	Transmit Antenna	Test Channel			
	Number	CH 1	CH 18	CH 32	
GFSK	1	Default	Default	Default	



5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)
1	2410 ~ 2473	PCB Antenna	-3.34

Test Mode	Transmit and Receive Mode	Description
GFSK	⊠1TX	Antenna 1 can be used as transmitting/receiving antenna.

Note: The value of the antenna gain was declared by customer.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
/	/	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
/	/	/	/	/	/

ACCESSORY

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.
/	/	/	/	/	/

TEST SETUP

The EUT have the engineer mode inside.

SETUP DIAGRAM FOR TEST



Note: New battery was used during all tests.

6. MEASURING EQUIPMENT AND SOFTWARE USED

Tonsend RF Test System						
Equipment	Manufacturer	Model No.	Serial No.	Last C	al.	Due. Date
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75- 102	Sep.28, 2	2022	Sep.27, 2023
Attenuator	Agilent	8495B	2814a12853	Oct.18, 2	2022	Oct.17, 2023
		Softwa	re			
Description	Description Manufacturer		rer Name			Version
Tonsend SRD Test Sys	tem Tonser	nd JS1	JS1120-3 RF Test System		2	.6.77.0518

		Radiated	l Emissions		
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.17, 2022	Oct.16, 2023
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023
EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	Oct.16, 2023
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Oct.17, 2022	Oct.16, 2023
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Oct.17, 2022	Oct.16, 2023
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Oct.17, 2022	Oct.16, 2023
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Oct.17, 2022	Oct.16, 2023
High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS	23	/	/
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	/	/
		So	ftware		
[Description		Manufacturer	Name	Version
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1

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7. ANTENNA PORT TEST RESULTS

7.1. 20DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

<u>LIMITS</u>

CFR 47 FCC Part15 (15.249) Subpart C RSS-Gen Issue 5				
Section	Test Item	Limit	Frequency Range (MHz)	
CFR 47 FCC §15.215 (c)	20dB Bandwidth	for reporting purposes only	2400-2483.5	
ISED RSS-Gen Clause 6.7 Issue 5	99% Occupied Bandwidth	For reporting purposes only.	2400-2483.5	

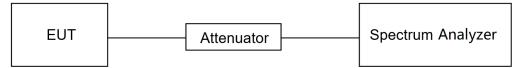
TEST PROCEDURE

Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test	
Detector	Peak	
RBW	1% to 5% of the occupied bandwidth	
VBW	approximately 3×RBW	
Trace	Max hold	
Sweep	Auto couple	

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB/99% relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.6 °C	Relative Humidity	53 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3 V



TEST RESULTS

Frequency	99% Bandwidth	20dB Bandwidth	Result
(MHz)	(MHz)	(MHz)	
2410	1.1412	1.114	PASS

20 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH LOW CH

🎉 Keysight Spe	ctrum Analyzer - Occupied BV	v							
x dB -20.0	RF 50 Ω AC		SENSE:INT Center Freq: 2.4100	00000 GHz	ALIGN AUTO	09:14:15 A	M Mar 20, 2023	N	leas Setup
			Trig: Free Run #Atten: 10 dB	Avg Hold::	>10/10	Radio Dev	vice: BTS	Av	g/Hold Num
								On	- 10 Off
10 dB/div Log	Ref 0.00 dBm								•
-10.0									Avg Mode
-20.0								Exp	Repeat
-30.0				mar my					
-40.0	A m	w			\sim				
-50.0						The has	_		
-70.0	ΨΨ						Mun		
-80.0								% of	OBW Power
-90.0									99.00 %
Center 2.4	41 GH7					Sn	an 3 MHz		
#Res BW			#VBW 100	kHz			4.133 ms		Power Ref
Occur	bied Bandwidt	'h	Total F	Power	-8.91	dBm			Total Power
		 1412 MH:	7						
									x dB -20.00 dB
Transn	nit Freq Error	12.751 kH	z % of O	BW Powe	er 99	.00 %			-20.00 uB
x dB B	andwidth	1.114 MH	z xdB		-20.0	00 dB			Mana
									More 1 of 2
MSG					STATUS				



Frequency	99% Bandwidth	20dB Bandwidth	Result
(MHz)	(MHz)	(MHz)	
2442	1.1817	1.128	PASS

20 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH LOW CH

Keysight Spectrum Analyzer - Occupied BW							
Center Freq 2.442000000 G	Cent	SENSE:INT er Freq: 2.4420		ALIGN AUTO	09:14:58 A Radio Std	M Mar 20, 2023	Frequency
	Trig:	Free Run	Avg Hold:	>10/10			
#	IFGain:Low #Atte	n: 10 dB			Radio Dev	ICE: BIS	
10 dB/div Ref 0.00 dBm							
-10.0							Center Freq
-20.0	- Λ	$-\Lambda$					2.442000000 GHz
-30.0	min		my				
-40.0	~~~		Y	n.	<u> </u>		
-50.0				VV	\sim		
-60.0					n n n n n n n n n n n n n n n n n n n	Dranka -	
-70.0						Mar	
-80.0							
-90.0							
					-		
Center 2.442 GHz #Res BW 30 kHz	3	#VBW 100	kH7			an 3 MHz 4.133 ms	CF Step
	7		KI IZ		Uncep	4.100 113	300.000 kHz Auto Man
Occupied Bandwidth		Total I	Power	-9.58	dBm		
1.1	817 MHz						Freq Offset
Transmit Freq Error	14.807 kHz	% of O	BW Powe	er 99	.00 %		0 Hz
x dB Bandwidth	1.128 MHz	x dB		-20	00 dB		
	1.120 1112	X UD		-20.	00 00		
				STATUS	,		
MSG				STATUS			



Frequency	99% Bandwidth	20dB Bandwidth	Result
(MHz)	(MHz)	(MHz)	
2473	1.2135	1.119	PASS

20 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH LOW CH

🚺 Keysight Spectrum Analyzer - Occupied BW							
₩ RF 50 Ω AC Center Freq 2.473000000 GI		SENSE:INT Freq: 2.473000		LIGN AUTO	09:15:32 A	M Mar 20, 2023	Frequency
	Trig:	Free Run n: 10 dB	Avg Hold:>	10/10	Radio Dev	ice: BTS	
10 dB/div Ref 0.00 dBm	· · ·		î				
-10.0							Center Fred
-20.0			A				2.473000000 GHz
-30.0	1 mm	a palan	my my				
-40.0			\	han	~~^		
-60.0					has		
-70.0						monen	
-80.0							
-90.0							
Center 2.473 GHz #Res BW 30 kHz	#	¢VBW 100 k	Hz			an 3 MHz 4.133 ms	CF Step 300.000 kHz
Occupied Bandwidth		Total Po	ower	-11.1	dBm		<u>Auto</u> Mar
1.21	35 MHz						Freq Offse
Transmit Freq Error	9.861 kHz	% of OE	W Powe	r 99	.00 %		0 Hz
x dB Bandwidth	1.119 MHz	x dB		-20.	00 dB		
MSG				STATUS	6		



7.2. DUTY CYCLE

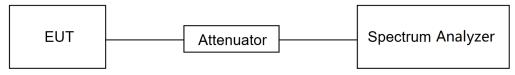
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.6 °C	Relative Humidity	53 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3 V

TEST RESULTS

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	6.84	100	0.0684	1.65	-23.30

Note: Duty Cycle Correction Factor=20log(x). Where: x is Duty Cycle



ON TIME AND DUTY CYCLE MID CH PLOT

🎉 Keysight Spec	trum Analyzer - Swe								- ē 🔀
Marker 3	RF 50 Ω Δ 5.82000 r	ns	т.:	SENSE:IN	Avg Type	ALIGN AUTO : Log-Pwr	TRAC	M Mar 20, 2023 DE 1 2 3 4 5 6 PE WWWWWW	Marker
10 dB/div	Ref 0.00 dE	PNO: Fast IFGain:Lov		g. Free Run ten: 10 dB		2	Mkr3 5.	.820 ms 2.71 dB	Select Marker
-10.0 -20.0 -30.0									Normal
-40.0 -50.0 -60.0	4 Judiatrice July	n Cally Palagore Way I control	1Δ2 Α.ι	appelerin der schiefer	Jungh Allen Law Law	4	Mentologica	upmatrial water	Delta
-70.0 -80.0 -90.0									Fixed⊳
Center 2.4 Res BW 8			BW 8.0	MHz		Sweep 2	20.00 ms (span 0 Hz 1001 pts) onvalue	Off
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	t (Δ) t t (Δ) t	380.0 µs 7.360 ms 5.820 ms 7.360 ms	-55 (Δ)	-4.38 dB 5.79 dBm -2.71 dB 5.79 dBm				E	Properties►
7 8 9 10 11									More 1 of 2
MSG						STATU	s		L

ON TIME AND DUTY CYCLE MID CH PLOT-2



Note: All the modes had been tested, but only the worst duty cycle recorded in the report.

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8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

CFR 47 FCC §15.249 (a)(d)(c)(e) and ISED RSS-210 Issue 10 Annex B B.10

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

The field strength of emissions from intentional radiators operated within these frequency							
	bai	nds					
Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)				
902 - 928	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3				
2400 - 2483.5	50 m\//m		3				
5725 – 5875	50 m\//m		3				

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz						
Frequency Range	Field Strength Limit	Field Strength Limit				
(MHz)	(uV/m) at 3 m (dBuV/m)		at 3 m			
		Quasi-Peak				
30 - 88	100	40				
88 - 216	150	43.5				
216 - 960	200	46				
Above 960	500	54				
Above 1000	500	Peak	Average			
Above 1000	500	74	54			

FCC Emissions radiated outside of the specified frequency bands below 30 MHz						
Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters)						
0.009-0.490	2400/F(kHz)	300				
0.490-1.705	24000/F(kHz)	30				
1.705-30.0	30	30				

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ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz						
Frequency Magnetic field strength (H-Field) (µA/m) Measurement distance (m)						
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300				
490 - 1705 kHz	63.7/F (F in kHz)	30				
1.705 - 30 MHz	0.08	30				

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

lz	MHz	GHz
90 - 0.110	149.9 - 150.05	9.0 - 9.2
195 - 0.505	158.52475 - 158.52525	9.3 - 9.5
735 - 2.1905	158.7 - 156.9	10.6 - 12.7
120 - 3.028	162.0125 - 167.17	13.25 - 13.4
25 - 4.128	167.72 - 173.2	14.47 - 14.5
7725 - 4.17775	240 - 285	15.35 - 16.2
20725 - 4.20775	322 - 335.4	17.7 - 21.4
877 - 5.683	399.9 - 410	22.01 - 23.12
215 - 6.218	608 - 614	23.6 - 24.0
26775 - 6.26825	960 - 1427	31.2 - 31.8
81175 - 6.31225	1435 - 1626.5	36.43 - 36.5
291 - 8.294	1645.5 - 1648.5	Above 38.6
82 - 8.366	1660 - 1710	
37625 - 8.38675	1718.8 - 1722.2	
1425 - 8.41475	2200 - 2300	
.29 - 12.293	2310 - 2390	
51975 - 12.52025	2483.5 - 2500	
.57675 - 12.57725	2655 - 2900	
36 - 13.41	3260 - 3267	
.42 - 16.423	3332 - 3339	
69475 - 16.69525	3345.8 - 3358	
.80425 - 16.80475	3500 - 4400	
5 - 25.67	4500 - 5150	
.5 - 38.25	5350 - 5460	
- 74.6	7250 - 7750	
.8 - 75.2	8025 - 8500	
3 - 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c



TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.

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

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.

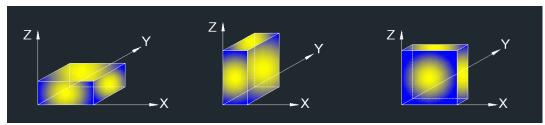
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5 m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements. Where necessary, average emission are determined by applying the Duty Cycle Correction Factor to the peak measurements. For the Duty Cycle and Correction Factor please refer to clause 7.2. ON TIME AND DUTY CYCLE.



X axis, Y axis, Z axis positions:

Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.



For Restricted Bandedge and field strength of intentional emission: Note:

1. Measurement = Reading Level + Correct Factor.

2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.

3. Peak: Peak detector.

4. AVG Result=Peak Result + Duty Cycle Correction Factor.

5. For the transmitting duration, please refer to clause 7.2.

6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

7. Both horizontal and vertical have been tested, only the worst data was recorded in the report. 8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz): Note:

1. Measurement = Reading Level + Correct Factor.

2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

Note:

1. Result Level = Read Level + Correct Factor.

2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.3. All modes, channels and antennas have been tested, only the worst data was recorded in the

report.



For Radiate Spurious Emission (1 GHz ~ 3 GHz):

1. Measurement = Reading Level + Correct Factor.

2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.

3. Peak: Peak detector.

4. AVG Result=Peak Result + Duty Cycle Correction Factor.

5. For the transmitting duration, please refer to clause 7.2.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz): Note:

1. Peak Result = Reading Level + Correct Factor.

2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.

3. Peak: Peak detector.

4. AVG Result=Peak Result + Duty Cycle Correction Factor.

5. For the transmitting duration, please refer to clause 7.2.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):

Note:

1. Measurement = Reading Level + Correct Factor.

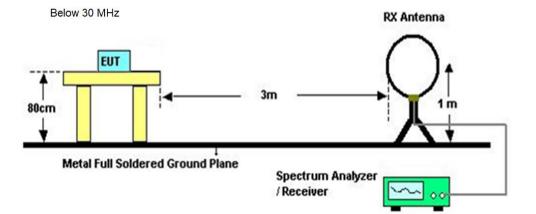
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.

3. Peak: Peak detector.

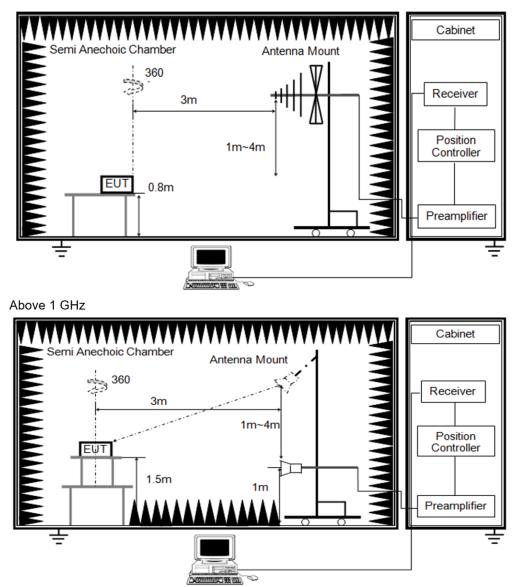
4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.



TEST SETUP



Below 1 GHz and above 30 MHz





TEST ENVIRONMENT

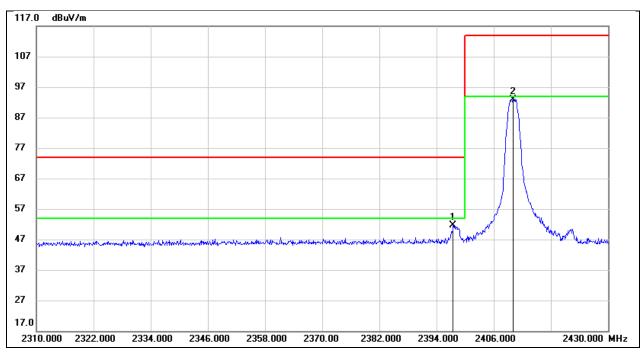
Temperature	22.3 °C	Relative Humidity	52 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3 V

TEST RESULTS



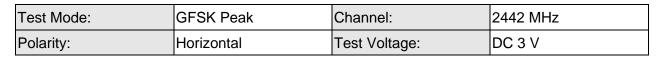
8.1. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS

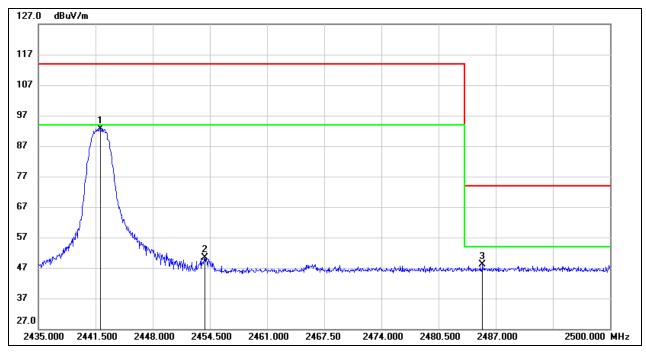
Test Mode:	GFSK Peak	Channel:	2410 MHz
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2397.480	19.33	32.18	51.51	74.00	-22.49	peak
2	2410.000	60.66	32.22	92.88	114.00	-21.12	Fundamental



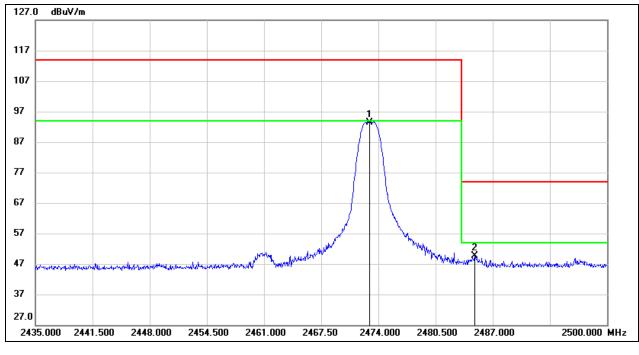




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2442.000	60.25	32.32	92.57	114.00	-21.43	Fundamental
2	2453.915	17.97	32.35	50.32	114.00	-63.68	peak
3	2485.505	15.61	32.44	48.05	74.00	-25.95	peak



Test Mode:	GFSK Peak	Channel:	2473 MHz
Polarity:	Horizontal	Test Voltage:	DC 3 V

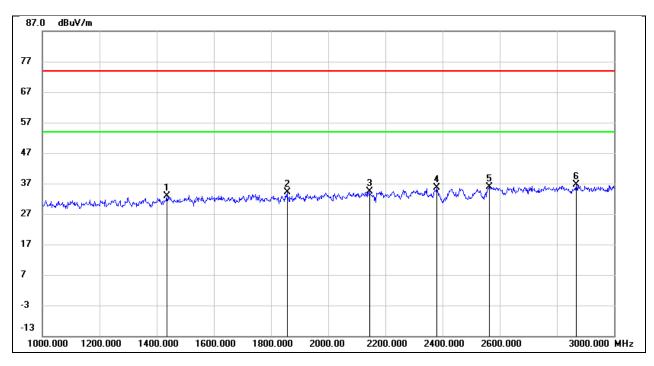


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2473.000	61.04	32.41	93.45	114.00	-20.55	Fundamental
2	2484.920	17.27	32.44	49.71	74.00	-24.29	peak



8.2. SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)

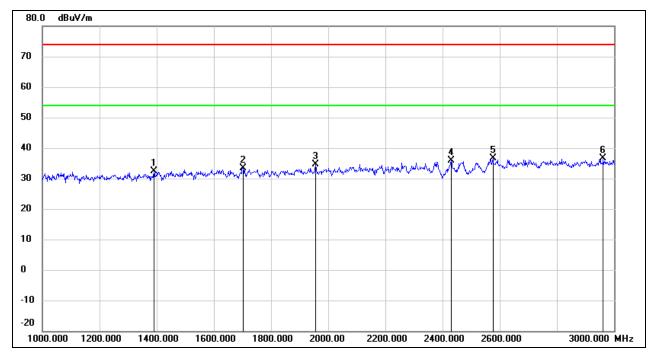
Test Mode:	GFSK	Channel:	2410 MHz
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1436.000	45.88	-13.01	32.87	74.00	-41.13	peak
2	1856.000	45.64	-11.54	34.10	74.00	-39.90	peak
3	2146.000	44.73	-10.31	34.42	74.00	-39.58	peak
4	2380.000	44.64	-9.10	35.54	74.00	-38.46	peak
5	2564.000	44.23	-8.30	35.93	74.00	-38.07	peak
6	2868.000	43.99	-7.38	36.61	74.00	-37.39	peak



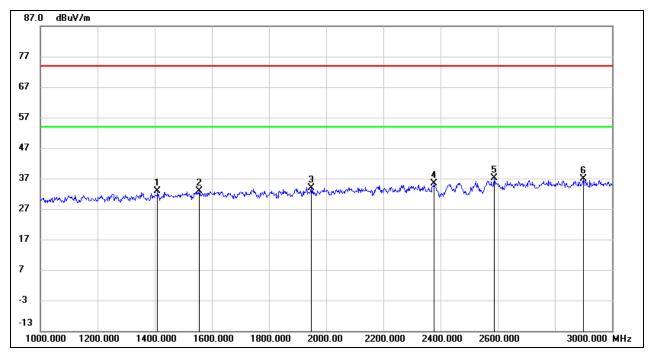
Test Mode:	GFSK	Channel:	2410 MHz
Polarity:	Vertical	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1390.000	45.57	-13.22	32.35	74.00	-41.65	peak
2	1702.000	45.48	-12.05	33.43	74.00	-40.57	peak
3	1956.000	45.89	-11.21	34.68	74.00	-39.32	peak
4	2430.000	44.65	-8.85	35.80	74.00	-38.20	peak
5	2576.000	44.86	-8.26	36.60	74.00	-37.40	peak
6	2962.000	43.66	-7.10	36.56	74.00	-37.44	peak



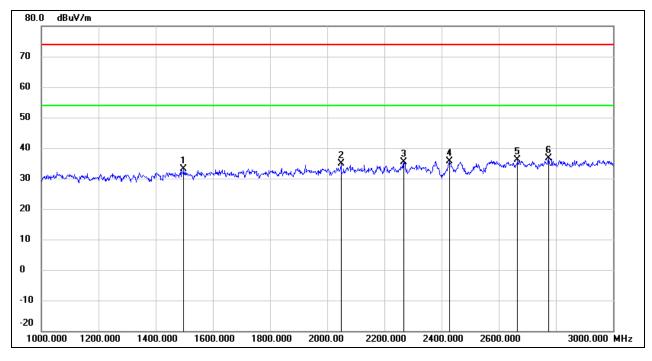
Test Mode:	GFSK	Channel:	2442 MHz
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1410.000	45.91	-13.13	32.78	74.00	-41.22	peak
2	1556.000	45.30	-12.53	32.77	74.00	-41.23	peak
3	1948.000	45.21	-11.23	33.98	74.00	-40.02	peak
4	2378.000	44.54	-9.12	35.42	74.00	-38.58	peak
5	2588.000	45.33	-8.22	37.11	74.00	-36.89	peak
6	2900.000	44.06	-7.28	36.78	74.00	-37.22	peak



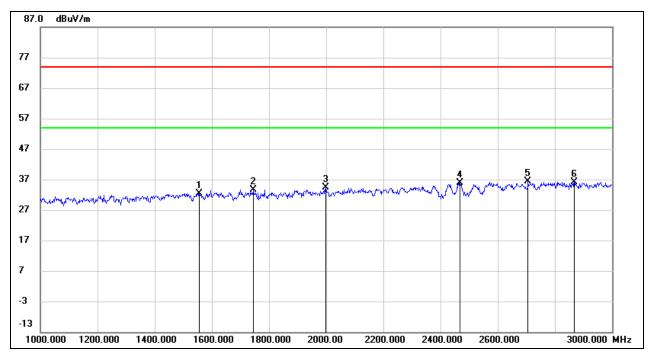
Test Mode:	GFSK	Channel:	2442 MHz
Polarity:	Vertical	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1498.000	45.93	-12.72	33.21	74.00	-40.79	peak
2	2048.000	45.76	-10.82	34.94	74.00	-39.06	peak
3	2268.000	45.16	-9.68	35.48	74.00	-38.52	peak
4	2428.000	44.39	-8.86	35.53	74.00	-38.47	peak
5	2666.000	43.99	-7.98	36.01	74.00	-37.99	peak
6	2774.000	44.26	-7.67	36.59	74.00	-37.41	peak



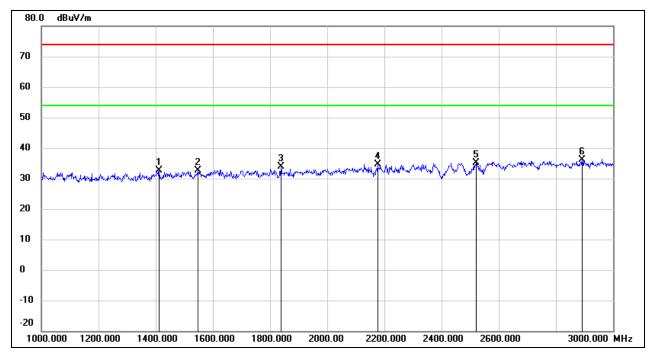
Test Mode:	GFSK	Channel:	2473 MHz
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1556.000	44.97	-12.53	32.44	74.00	-41.56	peak
2	1746.000	45.62	-11.90	33.72	74.00	-40.28	peak
3	1998.000	45.36	-11.06	34.30	74.00	-39.70	peak
4	2468.000	44.59	-8.65	35.94	74.00	-38.06	peak
5	2706.000	44.37	-7.87	36.50	74.00	-37.50	peak
6	2868.000	43.63	-7.38	36.25	74.00	-37.75	peak



Test Mode:	GFSK	Channel:	2473 MHz
Polarity:	Vertical	Test Voltage:	DC 3 V

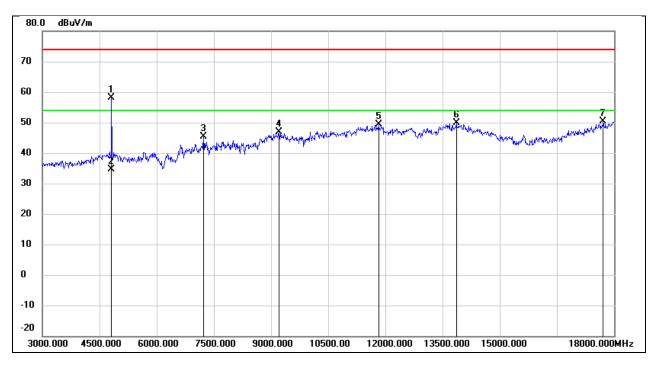


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1412.000	45.65	-13.12	32.53	74.00	-41.47	peak
2	1548.000	45.16	-12.55	32.61	74.00	-41.39	peak
3	1838.000	45.41	-11.60	33.81	74.00	-40.19	peak
4	2176.000	44.84	-10.16	34.68	74.00	-39.32	peak
5	2520.000	43.55	-8.43	35.12	74.00	-38.88	peak
6	2892.000	43.48	-7.31	36.17	74.00	-37.83	peak



8.3. SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)

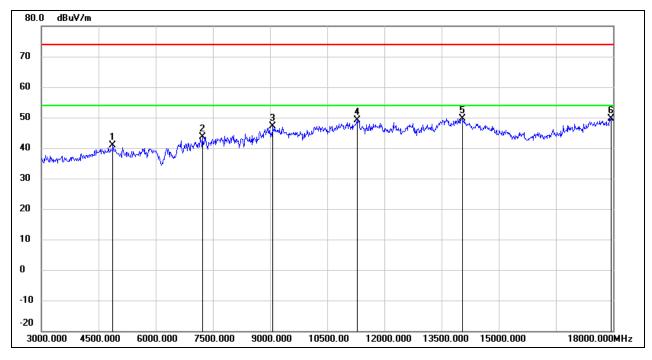
Test Mode:	GFSK	Channel:	2410 MHz
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	58.48	-0.26	58.22	74.00	-15.78	peak
2	4815.000	/	/	34.92	54.00	-19.08	AVG
3	7230.000	38.73	6.53	45.26	74.00	-28.74	peak
4	9210.000	36.41	10.57	46.98	74.00	-27.02	peak
5	11820.000	31.83	17.47	49.30	74.00	-24.70	peak
6	13860.000	28.22	21.67	49.89	74.00	-24.11	peak
7	17715.000	26.39	24.00	50.39	74.00	-23.61	peak



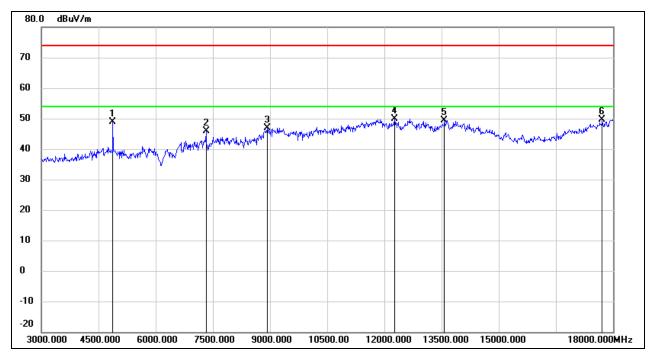
Test Mode:	GFSK	Channel:	2410 MHz
Polarity:	Vertical	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	40.84	-0.03	40.81	74.00	-33.19	peak
2	7230.000	37.18	6.53	43.71	74.00	-30.29	peak
3	9075.000	36.59	10.52	47.11	74.00	-26.89	peak
4	11280.000	33.45	15.80	49.25	74.00	-24.75	peak
5	14040.000	27.95	21.79	49.74	74.00	-24.26	peak
6	17940.000	24.27	25.34	49.61	74.00	-24.39	peak



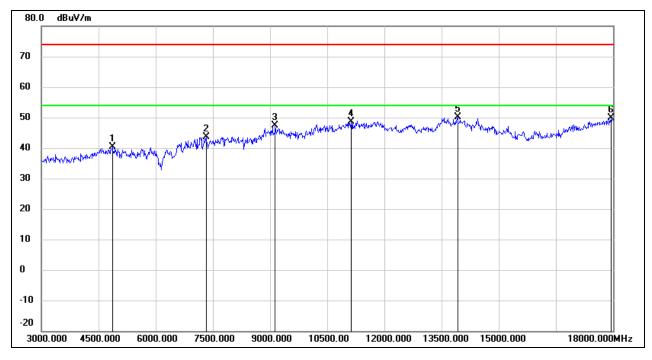
Test Mode:	GFSK	Channel:	2442 MHz
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	48.98	-0.03	48.95	74.00	-25.05	peak
2	7320.000	39.35	6.46	45.81	74.00	-28.19	peak
3	8925.000	37.00	9.94	46.94	74.00	-27.06	peak
4	12270.000	32.20	17.77	49.97	74.00	-24.03	peak
5	13575.000	28.34	21.06	49.40	74.00	-24.60	peak
6	17715.000	25.59	24.00	49.59	74.00	-24.41	peak



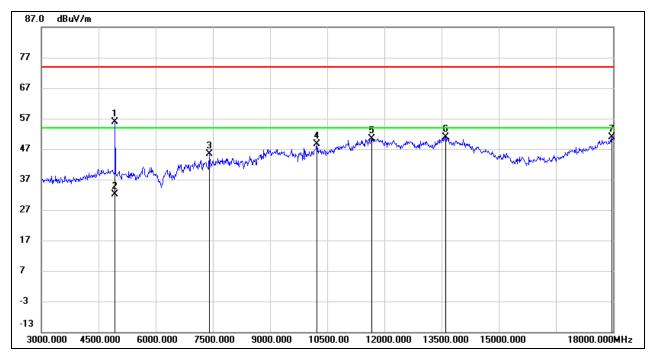
Test Mode:	GFSK	Channel:	2442 MHz
Polarity:	Vertical	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4860.000	40.55	-0.09	40.46	74.00	-33.54	peak
2	7320.000	37.20	6.46	43.66	74.00	-30.34	peak
3	9135.000	36.78	10.55	47.33	74.00	-26.67	peak
4	11130.000	33.26	15.25	48.51	74.00	-25.49	peak
5	13920.000	28.33	21.79	50.12	74.00	-23.88	peak
6	17955.000	24.38	25.42	49.80	74.00	-24.20	peak



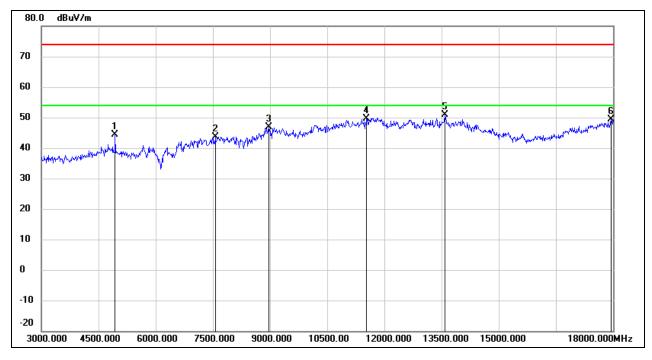
Test Mode:	GFSK	Channel:	2473 MHz
Polarity:	Horizontal	Test Voltage:	DC 3 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4935.000	55.61	0.20	55.81	74.00	-18.19	peak
2	4935.000	/	/	32.51	54.00	-21.49	AVG
3	7410.000	39.04	6.39	45.43	74.00	-28.57	peak
4	10230.000	36.18	12.46	48.64	74.00	-25.36	peak
5	11670.000	33.25	17.07	50.32	74.00	-23.68	peak
6	13605.000	29.86	21.12	50.98	74.00	-23.02	peak
7	17970.000	25.29	25.51	50.80	74.00	-23.20	peak



Test Mode:	GFSK	Channel:	2473 MHz
Polarity:	Vertical	Test Voltage:	DC 3 V

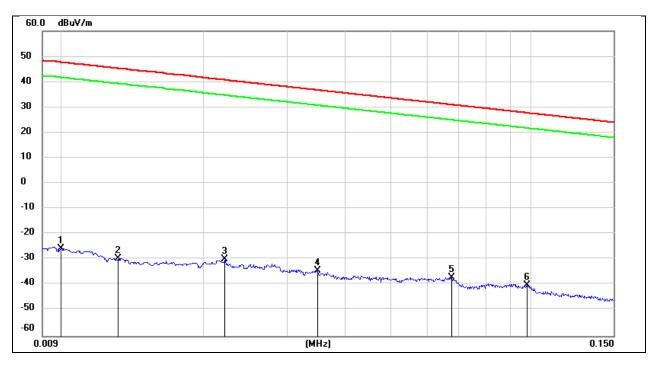


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4935.000	44.14	0.20	44.34	74.00	-29.66	peak
2	7560.000	37.37	6.33	43.70	74.00	-30.30	peak
3	8970.000	36.54	10.26	46.80	74.00	-27.20	peak
4	11535.000	33.00	16.70	49.70	74.00	-24.30	peak
5	13590.000	29.78	21.09	50.87	74.00	-23.13	peak
6	17940.000	24.03	25.34	49.37	74.00	-24.63	peak



8.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

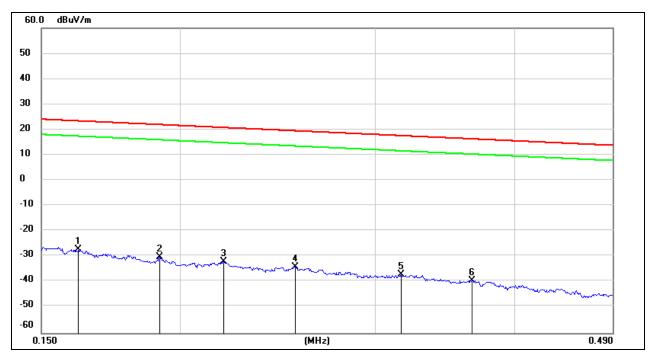
Test Mode:	GFSK	Channel:	2473 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0100	75.72	-101.40	-25.68	47.60	-73.28	peak
2	0.0131	71.97	-101.38	-29.41	45.25	-74.66	peak
3	0.0221	71.63	-101.35	-29.72	40.71	-70.43	peak
4	0.0349	67.03	-101.41	-34.38	36.75	-71.13	peak
5	0.0675	64.64	-101.56	-36.92	31.02	-67.94	peak
6	0.0981	61.77	-101.78	-40.01	27.77	-67.78	peak



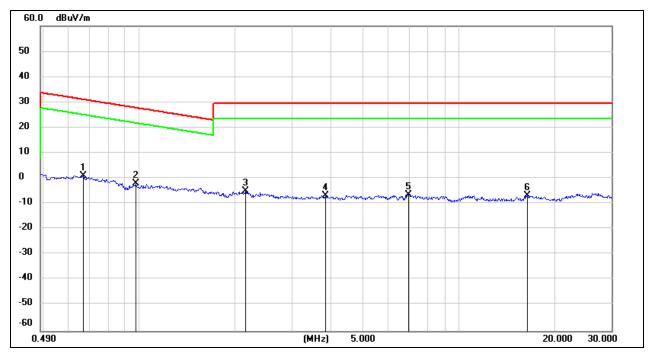
Test Mode:	GFSK	Channel:	2473 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1621	74.42	-101.65	-27.23	23.41	-50.64	peak
2	0.1917	71.54	-101.70	-30.16	21.95	-52.11	peak
3	0.2190	69.77	-101.75	-31.98	20.79	-52.77	peak
4	0.2535	67.64	-101.80	-34.16	19.52	-53.68	peak
5	0.3163	64.70	-101.87	-37.17	17.60	-54.77	peak
6	0.3662	62.58	-101.93	-39.35	16.33	-55.68	peak



Test Mode:	GFSK	Channel:	2473 MHz
Polarity:	Loop Antenna Face On To The EUT	Test Voltage	DC 3.0 V

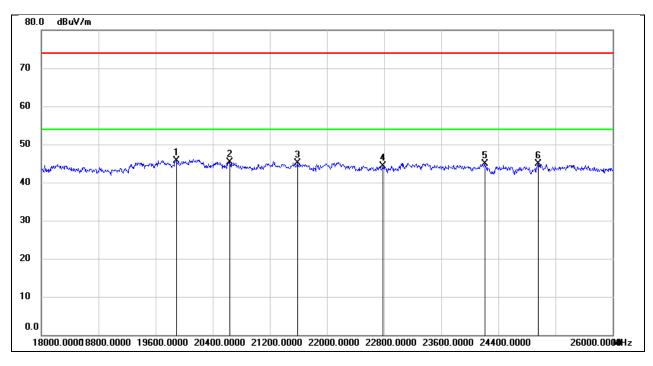


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.6671	63.25	-62.10	1.15	31.12	-29.97	peak
2	0.9737	60.21	-62.25	-2.04	27.83	-29.87	peak
3	2.1463	56.77	-61.79	-5.02	29.54	-34.56	peak
4	3.8246	54.70	-61.38	-6.68	29.54	-36.22	peak
5	6.9820	54.81	-61.21	-6.40	29.54	-35.94	peak
6	16.3959	54.17	-60.96	-6.79	29.54	-36.33	peak



8.5. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

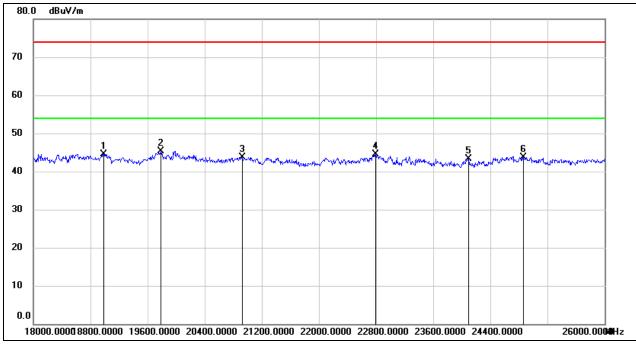
Test Mode:	GFSK	Channel:	2473 MHz
Polarity:	Horizontal	Test Voltage	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19888.000	51.07	-5.36	45.71	74.00	-28.29	peak
2	20640.000	50.62	-5.22	45.40	74.00	-28.60	peak
3	21584.000	49.69	-4.56	45.13	74.00	-28.87	peak
4	22784.000	47.98	-3.65	44.33	74.00	-29.67	peak
5	24208.000	47.71	-2.81	44.90	74.00	-29.10	peak
6	24960.000	47.14	-2.14	45.00	74.00	-29.00	peak



Test Mode:	GFSK	Channel:	2473 MHz
Polarity:	Vertical	Test Voltage	DC 3.0 V

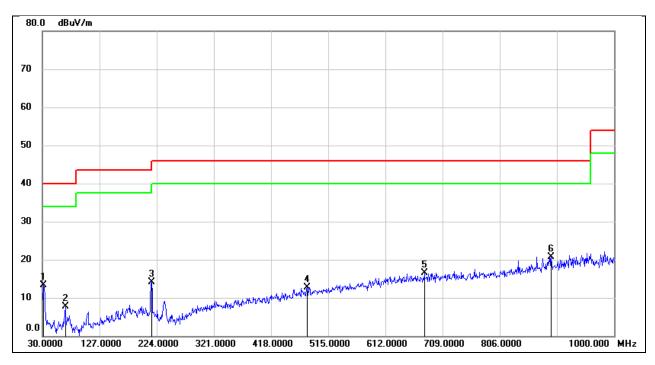


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18984.000	49.79	-5.23	44.56	74.00	-29.44	peak
2	19784.000	50.57	-5.28	45.29	74.00	-28.71	peak
3	20928.000	48.74	-4.95	43.79	74.00	-30.21	peak
4	22792.000	48.11	-3.65	44.46	74.00	-29.54	peak
5	24096.000	46.11	-2.78	43.33	74.00	-30.67	peak
6	24864.000	46.03	-2.23	43.80	74.00	-30.20	peak



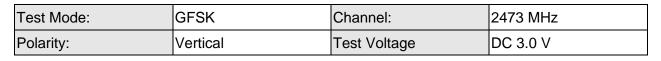
8.6. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

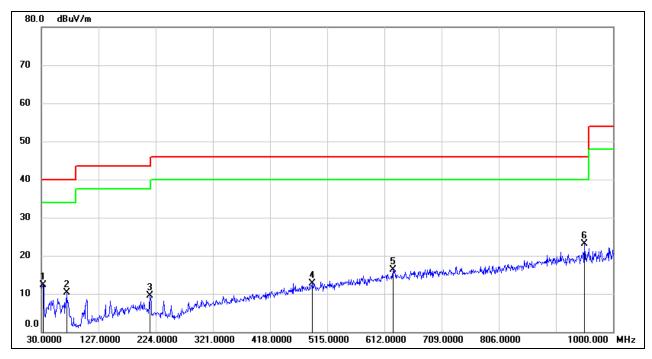
Test Mode:	GFSK	Channel:	2473 MHz
Polarity:	Horizontal	Test Voltage	DC 3.0 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.9400	32.37	-19.13	13.24	40.00	-26.76	QP
2	68.8000	28.33	-20.56	7.77	40.00	-32.23	QP
3	215.2700	31.91	-17.76	14.15	43.50	-29.35	QP
4	479.1100	24.55	-11.82	12.73	46.00	-33.27	QP
5	677.9600	25.11	-8.61	16.50	46.00	-29.50	QP
6	893.3000	25.99	-5.23	20.76	46.00	-25.24	QP







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	32.9100	31.59	-19.22	12.37	40.00	-27.63	QP
2	72.6800	31.07	-20.76	10.31	40.00	-29.69	QP
3	214.3000	27.23	-17.66	9.57	43.50	-33.93	QP
4	489.7800	24.43	-11.70	12.73	46.00	-33.27	QP
5	626.5500	25.50	-9.25	16.25	46.00	-29.75	QP
6	951.5000	27.54	-4.43	23.11	46.00	-22.89	QP



9. ANTENNA REQUIREMENT

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

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

RESULTS

Complies

END OF REPORT