

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

#### **TEST REPORT**

For

**TOY Receiver** 

**MODEL NUMBER: GF96UNRR** 

FCC ID: G6DGF96UNRR

IC: 9650A-GF96UNRR

REPORT NUMBER: 4789442392-2

ISSUE DATE: April 26, 2020

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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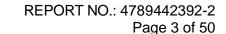


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Revision	History

Rev.	Issue Date	Revisions	Revised By
VO	04/26/2020	Initial Issue	





Summary of Test Results Clause Test Items FCC/ISED Rules **Test Results** 20dB Bandwidth and 99% CFR 47 FCC §15.215 (c) 1 Pass ISED RSS-Gen Clause 6.7 Occupied Bandwidth CFR 47 FCC §15.249 (a)(d)(e) ISED RSS-210 Annex B B.10 2 CFR 47 FCC §15.205 and §15.209 Radiated Emission **Pass** RSS-GEN Clause 8.9 **RSS-GEN Clause 8.10** CFR 47 FCC §15.203 3 Antenna Requirement Pass ISED RSS-Gen Clause 6.3

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 measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C, ISED RSS-210 Issue 10 and ISED RSS-GEN Issue 5 > when <Accuracy Method> decision rule is applied.



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## 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 Receiver
Model: GF96UNRR
Sample Received Date: March 23, 2020

Sample Status: Normal

Date of Tested: April 17, 2020~ April 24, 2020

APPLICABLE STANDARDS		
STANDARD	TEST RESULTS	
CFR 47 FCC PART 15 SUBPART C	PASS	
ISED RSS-210 Issue 10	PASS	
ISED RSS-GEN Issue 5	PASS	

Prepared By:	Checked By:
Donny Grany	5 hemalies
Denny Huang Project Engineer	Shawn Wen Laboratory Leader

Approved By:

Stephen Guo Laboratory Manager



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## 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 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 rules.			
	ISED (Company No.: 21320)			
Accreditation UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Br				
Certificate	has been registered and fully described in a report filed with ISED. The			
	Company Number is 21320.  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:

- All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China
- 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.
- 3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.



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## 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	3.62dB
Radiation Emission test (include Fundamental emission) (9KHz-30MHz)	2.2dB
Radiation Emission test (include Fundamental emission) (30MHz-1GHz)	4.00dB
Radiation Emission test	5.78dB (1GHz-18GHz)
(1GHz to 26GHz) (include Fundamental emission)	5.23dB (18GHz-26GHz)

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 Receiver		
EUT Description	The EUT is a wireless remote controlled toy car.		
Model	GF96UNRR		
Product Description	Operation Frequency	2410 MHz ~ 2470 MHz	
Product Description	Modulation Type	GFSK	
Battery	DC 9.6V		
Rated Input	DC 5V		

## 5.2. MAXIMUM FIELD STRENGTH

Frequency (MHz)	Channel Number	Max Peak field strength (dBμV/m)
2410	18[32]	90.37

## 5.3. 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	2470
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	/	/

## 5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2410 ~ 2470	Line Antenna	0

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



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#### 5.5. **TEST CHANNEL CONFIGURATION**

Test Mode	Test Channel	Frequency
GFSK	CH 1(Low Channel), CH 18(MID Channel), CH 32(High Channel)	2410MHz, 2442MHz, 2470MHz

#### 5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2410 MHz ~ 2470 MHz Band					
Test Soft	ware Version		/		
Modulation Type	Transmit Antenna	Test Channel			
Number		CH 1	CH 18	CH 32	
GFSK	1	Default	Default	Default	

## 5.7. TEST ENVIRONMENT

Environment Parameter	Selected Va	lues During Tests	
Relative Humidity			
Atmospheric Pressure:			
Temperature	TN	22 ~ 28°C	
	VL	/	
Voltage:	VN	DC 9.6V	
	VH	/	

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage VH= Upper Extreme Test Voltage

TN= Normal Temperature



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## 5.8. DESCRIPTION OF TEST SETUP

## **SUPPORT EQUIPMENT**

No support equipment.

## **I/O CABLES**

No I/O cables.

## **ACCESSORY**

No accessory.

#### **TEST SETUP**

The EUT have an engineer mode inside.

## **SETUP DIAGRAM FOR TEST**

**EUT** 

Note: New battery was used during all tests.



5.9. MEASURING INSTRUMENT AND SOFTWARE USED

	Radiated Emissions							
			I	nstrumen	ıt			
Used	Equipment	Manufacturer	Мо	del No.	Seria	al No.	Last Cal.	Next Cal.
V	MXE EMI Receiver	KESIGHT	N9	9038A	MY564	400036	Dec. 6, 2019	Dec. 6, 2020
V	Hybrid Log Periodic Antenna	TDK	HLF	P-3003C	130	959	Sept.17, 2018	Sept.17,2021
V	Preamplifier	HP	8	447D	29444	09099	Dec. 5, 2019	Dec. 5, 2020
V	EMI Measurement Receiver	R&S	E	SR26	101	377	Dec. 05, 2019	Dec.05, 2020
$\checkmark$	Horn Antenna	TDK	HR	N-0118	130	939	Sept. 17, 2018	Sept.17,2021
V	Preamplifier	TDK	PA-	02-0118		-305- 067	Dec. 05, 2019	Dec.05, 2020
$\overline{\checkmark}$	Loop antenna	Schwarzbeck	1	519B	000	800	Jan.17, 2019	Jan.17, 2022
V	Preamplifier	TDK		02-001- 3000	_	-302- 050	Dec. 05, 2019	Dec.05, 2020
V	High Gain Horn Antenna	Schwarzbeck	BBH	HA-9170	69	91	Aug.11,2018	Aug.11,2021
V	Preamplifier	TDK	P	A-02-2	_	-307- 003	Dec. 05, 2019	Dec.05, 2020
				Software				
Used				Manufa	cturer		Name	Version
V	Test Software distur	oance		Fara			EZ-EMC	Ver. UL-3A1
			Othe	r instrun	nents			
Used	Equipment	Manufacturer		del No.	Seria	al No.	Last Cal.	Next Cal.
$\checkmark$	High Pass Filter	Wi	270	HKX10- 0-3000- 00-40SS	2	23	Dec. 05, 2019	Dec.05, 2020
	Band Reject Filter	Wainwright	235 24	RCJV8- 0-2400- 483.5- 3.5-40SS		4	Dec. 05, 2019	Dec.05, 2020



6. ANTENNA PORT TEST RESULTS
6.1. ON TIME AND DUTY CYCLE

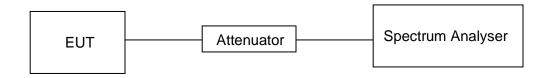
## **LIMITS**

None; for reporting purposes only

## **PROCEDURE**

KDB 558074 Zero-Span Spectrum Analyzer Method

## **TEST SETUP**



## **TEST ENVIRONMENT**

Temperature	23.3°C	Relative Humidity	57%
Atmosphere Pressure	101kPa	Test Voltage	DC 9.6V

#### **RESULTS**

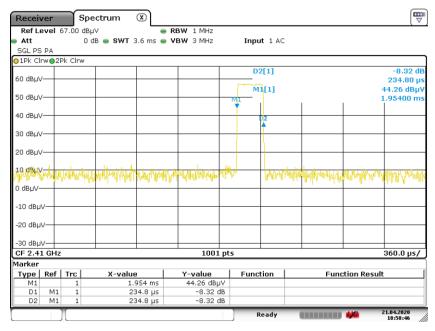
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	0.235	100	0.002	0.2	-53.98

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

Where: x is Duty Cycle

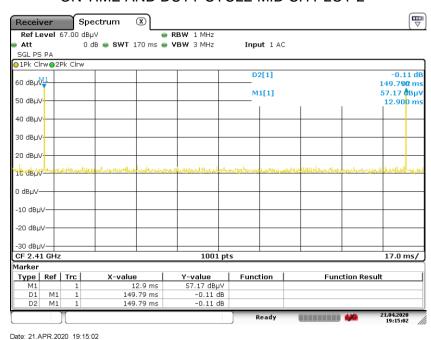


## ON TIME AND DUTY CYCLE MID CH PLOT



Date: 21.APR.2020 18:58:46

#### 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.



## 6.2. 20 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

## **LIMITS**

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		

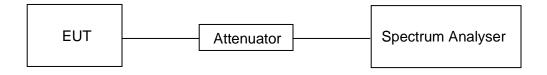
### **TEST PROCEDURE**

Connect the UUT to the spectrum analyser 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 6 dB/99% relative to the maximum level measured in the fundamental emission.

## **TEST SETUP**



### **TEST ENVIRONMENT**

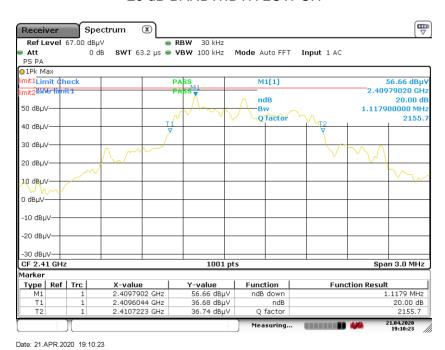
Temperature	23.3°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 9.6V



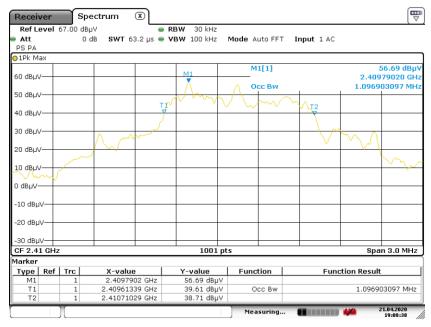
#### **RESULTS**

Frequency (MHz)	20dB bandwidth (MHz)	99% bandwidth (MHz)	Result
2410	1.1179	1.0969	PASS

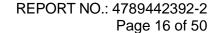
#### 20 dB BANDWIDTH LOW CH



99% OCCUPIED BANDWIDTH LOW CH



Date: 21.APR.2020 19:08:39





Frequency (MHz)

20dB bandwidth (MHz)

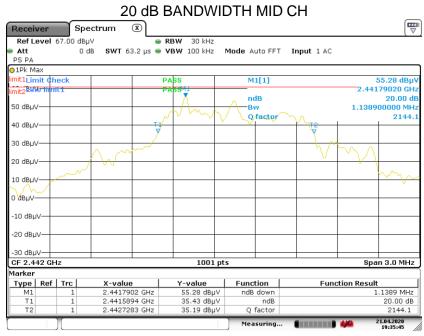
99% bandwidth (MHz)

Result

1.1389

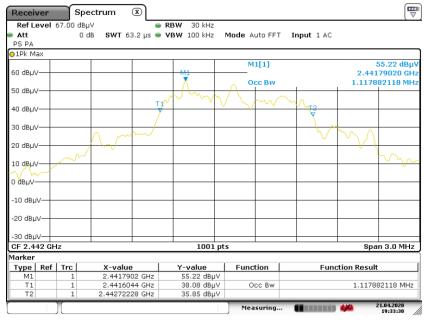
1.1179

PASS

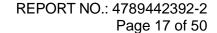


Date: 21.APR.2020 19:35:45

#### 99% OCCUPIED BANDWIDTH MID CH



Date: 21.APR.2020 19:33:30





Frequency (MHz)

20dB bandwidth (MHz)

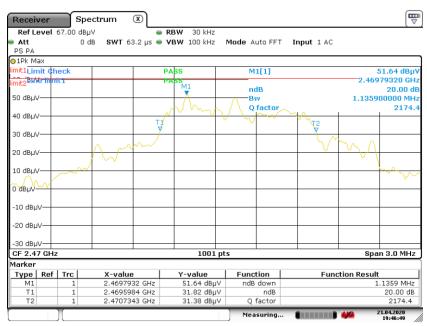
99% bandwidth (MHz)

Result

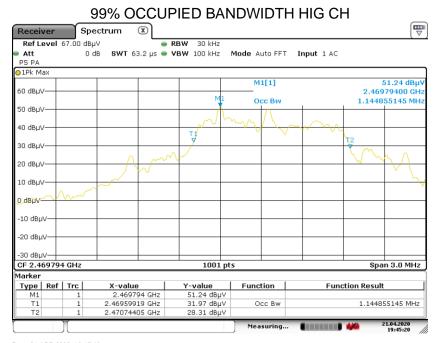
1.1149

PASS

#### 20 dB BANDWIDTH HIG CH



Date: 21.APR.2020 19:46:49



Date: 21.APR.2020 19:45:19



7. RADIATED TEST RESULTS
7.1. LIMITS AND PROCEDURE

## **LIMITS**

CFR 47 FCC §15.205 and §15.209

CFR 47 FCC §15.249 (a)(d)(c)(e)

ISED RSS-210 Issue 9 Annex B B.10

**RSS-GEN Clause 8.9** 

The field strength of emissions from intentional radiators operated within these frequency bands					
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 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3		
5725 – 5875	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3		

Emissions radiated outside of the specified frequency bands above 30MHz					
Frequency Range	Field Strength Limit	Field Strength Limit			
(MHz)	(uV/m) at 3 m	(dBuV/n	n) at 3 m		
(1411 12)	(4 7/11) at 5 111	Quas	i-Peak		
30 - 88	100	40			
88 - 216	150	43	3.5		
216 - 960	200	46 54			
Above 960	500				
Abovo 1000	E00	Peak	Average		
Above 1000	Above 1000 500		54		

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



## 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 <sup>Note 1</sup>	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.

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

Table 7 – Restricted frequency bands <sup>Note 1</sup>					
MHz	MHz	GHz			
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2			
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5			
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7			
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4			
4.125 - 4.128	167.72 - 173.2	14.47 = 14.5			
4.17725 - 4.17775	240 – 285	15.35 - 16.2			
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4			
5.677 - 5.683	399.9 - 410	22.01 - 23.12			
6.215 - 6.218	608 - 614	23.6 - 24.0			
6.26775 - 6.26825	960 - 1427	31.2 - 31.8			
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5			
8.291 - 8.294	1645.5 - 1646.5	Above 38.6			
8.362 - 8.366	1660 - 1710				
8.37625 - 8.38675	1718.8 - 1722.2				
8.41425 - 8.41475	2200 - 2300				
12.29 - 12.293	2310 - 2390				
12.51975 - 12.52025	2483.5 - 2500				
12.57675 - 12.57725	2655 - 2900				
13.36 - 13.41	3260 - 3267				
16.42 - 16.423	3332 - 3339				
16.69475 - 16.69525	3345.8 - 3358				
16.80425 - 16.80475	3500 - 4400				
25.5 - 25.67	4500 - 5150				
37.5 - 38.25	5350 - 5460				
73 - 74.6	7250 - 7750				
74.8 - 75.2	8025 - 8500				
108 – 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:

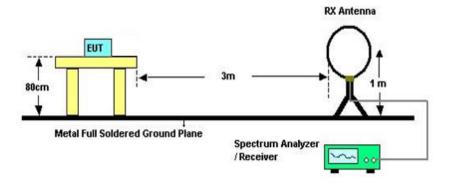
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
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	( <sup>2</sup> )
13.36-13.41			

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



TEST SETUP AND PROCEDURE

#### Below 30MHz



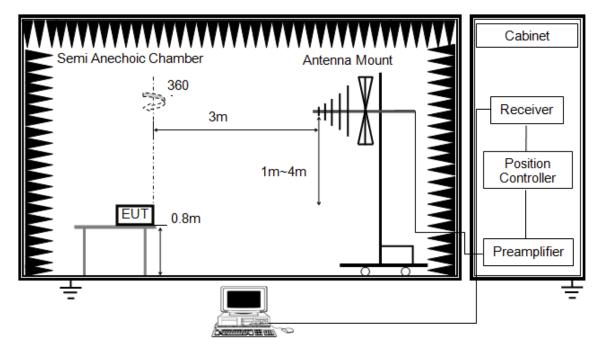
#### The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 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 80cm meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m 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 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open field site. Therefore, the sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.



Below 1G



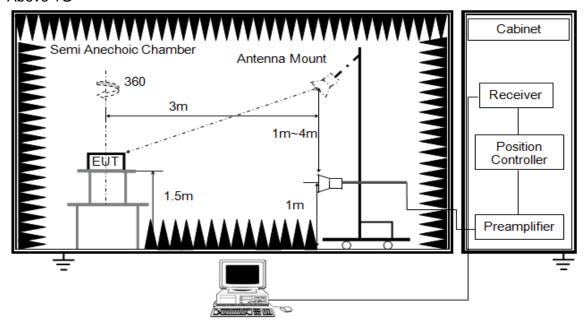
The setting of the spectrum analyser

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

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 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 80cm 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. 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



Above 1G



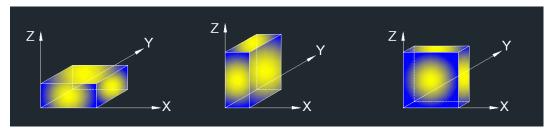
The setting of the spectrum analyser

RBW	1M
1\/B\/\/	PEAK: 3M AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (1.5 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter or band reject 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 150cm 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 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 6.1. ON TIME AND DUTY CYCLE.



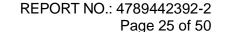
X axis, Y axis, Z axis positions:



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.

## **TEST ENVIRONMENT**

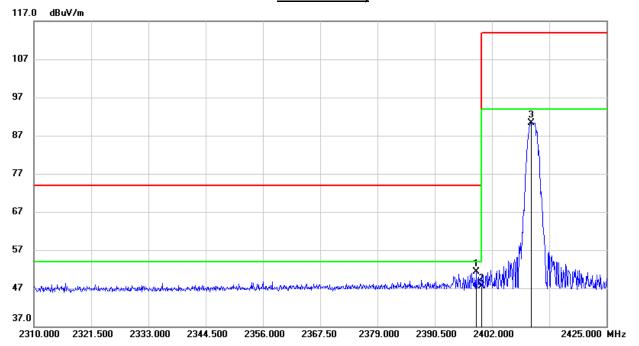
Temperature	22.5°C	Relative Humidity	59%
Atmosphere Pressure	101kPa	Test Voltage	DC 9.6V





7.2. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS

# RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, HORIZONTAL)

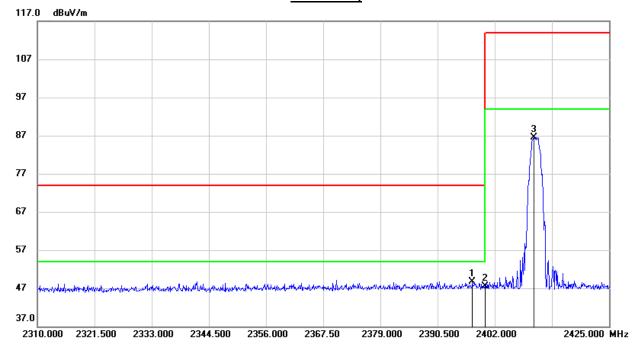


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2398.780	18.37	32.98	51.35	74.00	-22.65	peak
2	2400.000	14.58	32.98	47.56	74.00	-26.44	peak
3	2409.820	57.32	33.05	90.37	114.00	-23.63	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



# RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOW CHANNEL, VERTICAL)

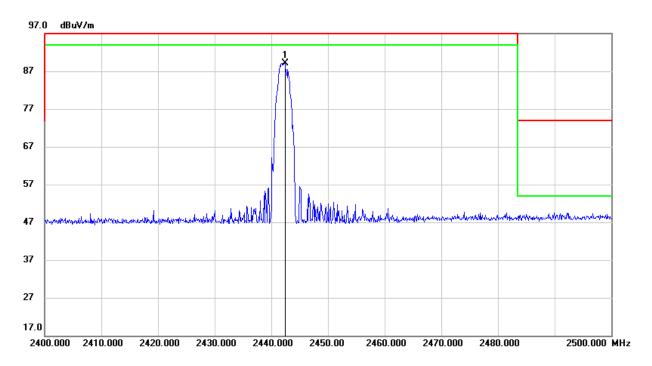


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2397.515	15.73	32.98	48.71	74.00	-25.29	peak
2	2400.000	14.57	32.98	47.55	74.00	-26.45	peak
3	2409.820	53.51	33.05	86.56	114.00	-27.44	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



#### FIELD STRENGTH OF INTENTIONAL EMISSIONS (MIDDLE CHANNEL, HORIZONTAL)

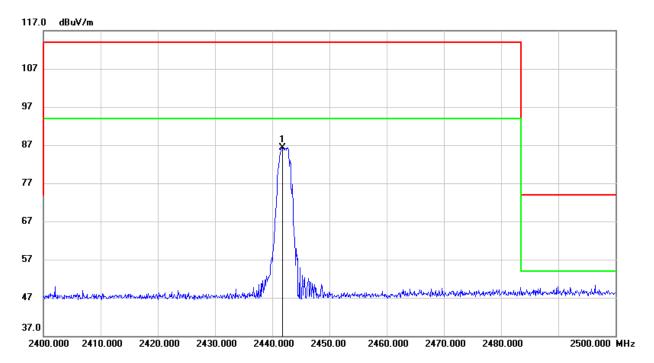


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2442.400	55.82	33.29	89.11	114.00	-24.89	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



#### FIELD STRENGTH OF INTENTIONAL EMISSIONS (MIDDLE CHANNEL, VERTICAL)



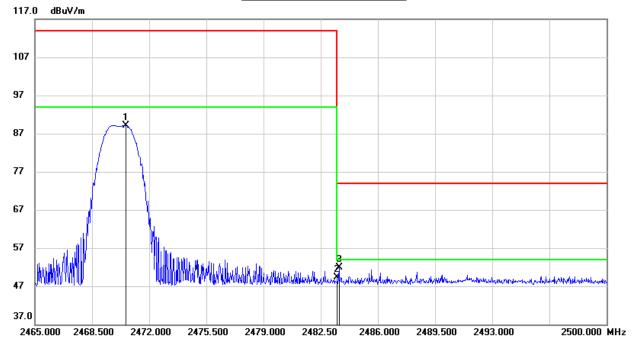
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2441.800	53.04	33.29	86.33	114.00	-27.67	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



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# RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, HORIZONTAL)

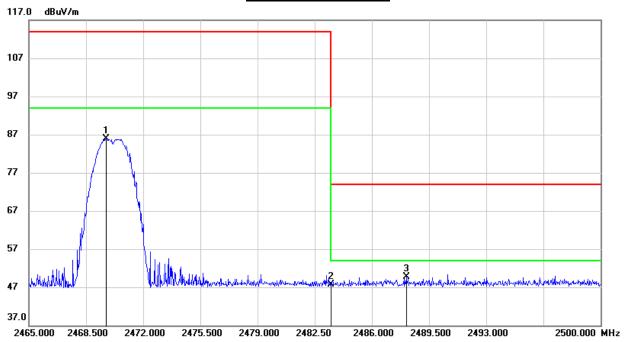


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2470.565	55.67	33.49	89.16	114.00	-24.84	peak
2	2483.500	15.68	33.58	49.26	74.00	-24.74	peak
3	2483.620	18.31	33.58	51.89	74.00	-22.11	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



## RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS (HIGH CHANNEL, VERTICAL)



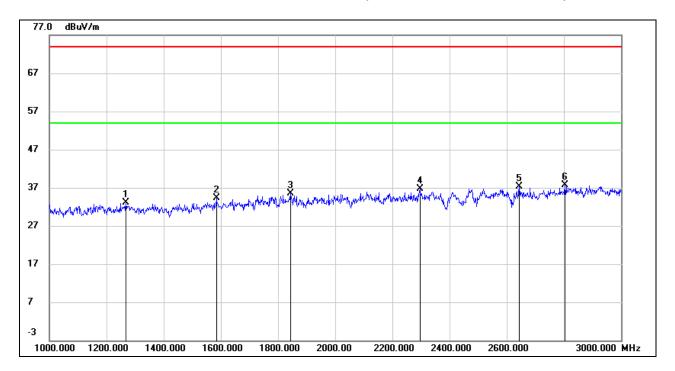
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2469.725	52.34	33.49	85.83	114.00	-28.17	peak
2	2483.500	14.16	33.58	47.74	74.00	-26.26	peak
3	2488.100	16.15	33.62	49.77	74.00	-24.23	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Only the worst emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



7.3. SPURIOUS EMISSIONS (1~3GHz)

#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

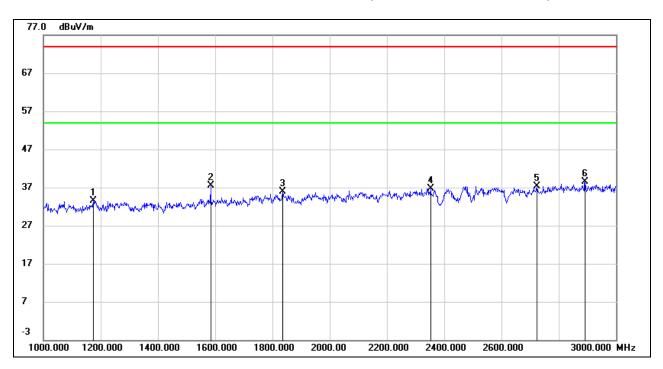


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1268.000	45.63	-12.45	33.18	74.00	-40.82	peak
2	1584.000	45.81	-11.53	34.28	74.00	-39.72	peak
3	1844.000	45.45	-9.93	35.52	74.00	-38.48	peak
4	2296.000	44.84	-8.21	36.63	74.00	-37.37	peak
5	2644.000	44.77	-7.45	37.32	74.00	-36.68	peak
6	2804.000	43.70	-6.04	37.66	74.00	-36.34	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
  - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)** 

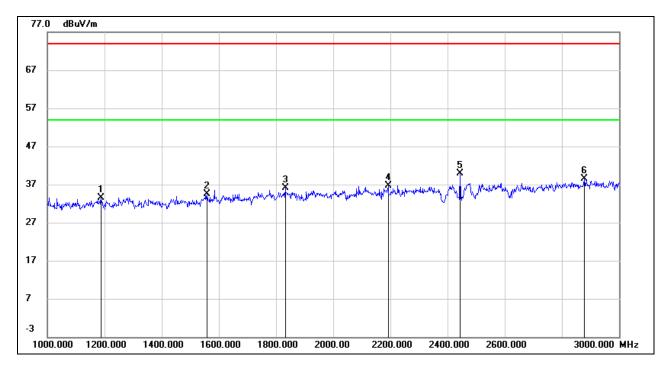


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1174.000	46.50	-12.90	33.60	74.00	-40.40	peak
2	1584.000	49.05	-11.53	37.52	74.00	-36.48	peak
3	1836.000	45.78	-9.92	35.86	74.00	-38.14	peak
4	2352.000	44.69	-8.02	36.67	74.00	-37.33	peak
5	2724.000	44.20	-6.87	37.33	74.00	-36.67	peak
6	2892.000	44.08	-5.57	38.51	74.00	-35.49	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
  - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



#### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

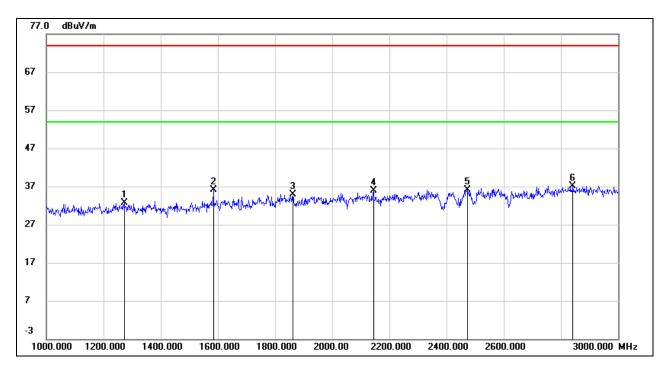


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1188.000	46.30	-12.77	33.53	74.00	-40.47	peak
2	1558.000	46.33	-11.74	34.59	74.00	-39.41	peak
3	1832.000	45.95	-9.93	36.02	74.00	-37.98	peak
4	2192.000	45.42	-8.70	36.72	74.00	-37.28	peak
5	2444.000	47.49	-7.55	39.94	74.00	-34.06	peak
6	2878.000	44.13	-5.64	38.49	74.00	-35.51	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
  - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



#### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

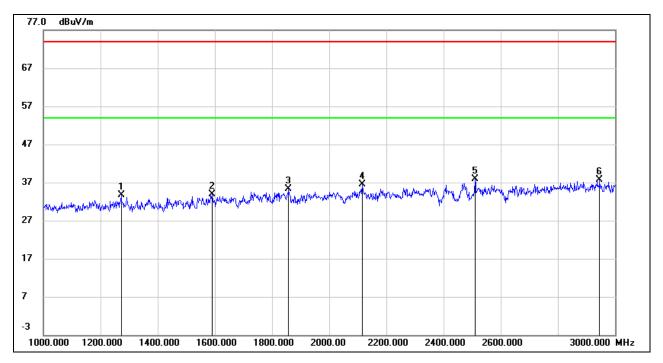


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1272.000	45.12	-12.44	32.68	74.00	-41.32	peak
2	1584.000	47.55	-11.53	36.02	74.00	-37.98	peak
3	1862.000	44.88	-9.94	34.94	74.00	-39.06	peak
4	2144.000	44.90	-8.94	35.96	74.00	-38.04	peak
5	2472.000	43.55	-7.36	36.19	74.00	-37.81	peak
6	2842.000	42.95	-5.83	37.12	74.00	-36.88	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
  - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



#### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

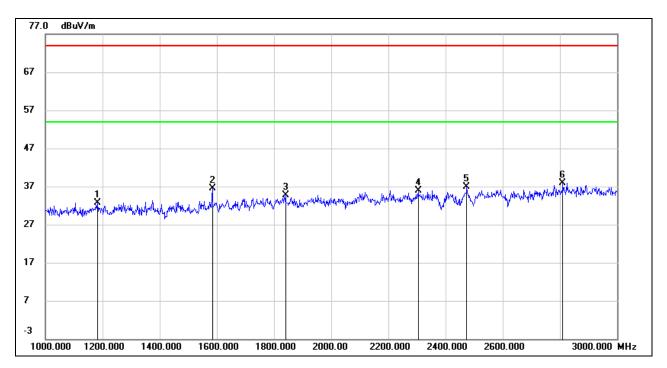


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1272.000	46.05	-12.44	33.61	74.00	-40.39	peak
2	1590.000	45.40	-11.49	33.91	74.00	-40.09	peak
3	1858.000	45.23	-9.93	35.30	74.00	-38.70	peak
4	2116.000	45.49	-9.08	36.41	74.00	-37.59	peak
5	2510.000	45.16	-7.21	37.95	74.00	-36.05	peak
6	2946.000	43.11	-5.42	37.69	74.00	-36.31	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
  - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



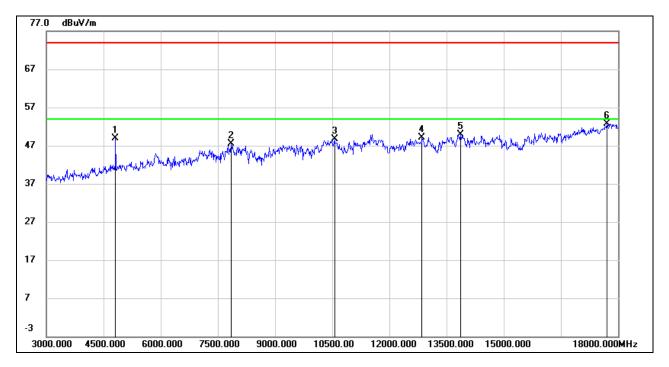
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1182.000	45.62	-12.82	32.80	74.00	-41.20	peak
2	1584.000	48.10	-11.53	36.57	74.00	-37.43	peak
3	1840.000	44.73	-9.93	34.80	74.00	-39.20	peak
4	2304.000	44.11	-8.18	35.93	74.00	-38.07	peak
5	2474.000	44.28	-7.35	36.93	74.00	-37.07	peak
6	2810.000	43.97	-6.00	37.97	74.00	-36.03	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.
  - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



# 7.4. SPURIOUS EMISSIONS (3~18GHz)

### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

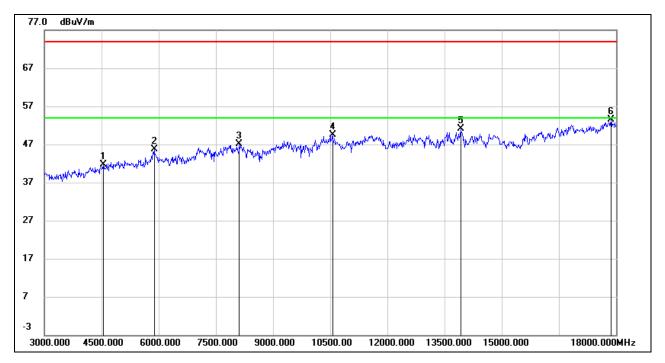


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	48.35	0.51	48.86	74.00	-25.14	peak
2	7845.000	39.91	7.62	47.53	74.00	-26.47	peak
3	10560.000	36.99	11.73	48.72	74.00	-25.28	peak
4	12855.000	33.86	15.23	49.09	74.00	-24.91	peak
5	13860.000	33.39	16.56	49.95	74.00	-24.05	peak
6	17715.000	30.23	22.56	52.79	74.00	-21.21	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The High Pass filter loss factor already add into the correct factor.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

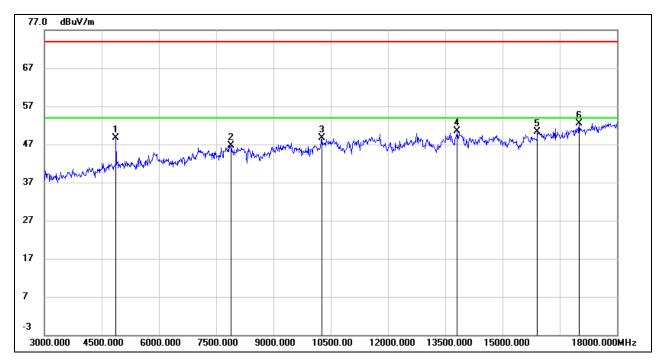


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4545.000	42.18	-0.56	41.62	74.00	-32.38	peak
2	5880.000	41.16	4.59	45.75	74.00	-28.25	peak
3	8115.000	39.23	7.90	47.13	74.00	-26.87	peak
4	10560.000	37.73	11.73	49.46	74.00	-24.54	peak
5	13920.000	34.88	16.17	51.05	74.00	-22.95	peak
6	17865.000	30.12	23.33	53.45	74.00	-20.55	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The High Pass filter loss factor already add into the correct factor.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

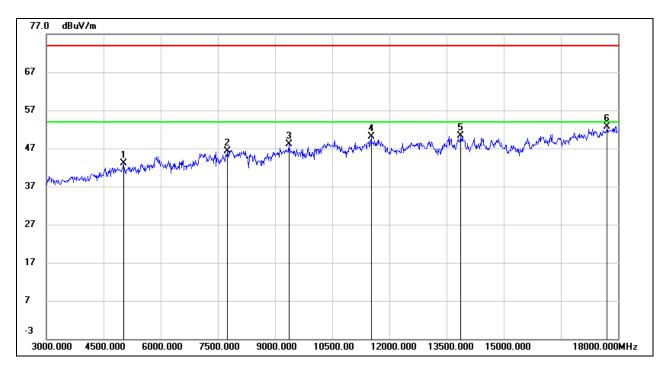


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	47.88	0.76	48.64	74.00	-25.36	peak
2	7890.000	39.34	7.30	46.64	74.00	-27.36	peak
3	10260.000	38.04	10.71	48.75	74.00	-25.25	peak
4	13815.000	33.55	16.97	50.52	74.00	-23.48	peak
5	15915.000	32.81	17.57	50.38	74.00	-23.62	peak
6	17010.000	32.12	20.43	52.55	74.00	-21.45	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The High Pass filter loss factor already add into the correct factor.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



#### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

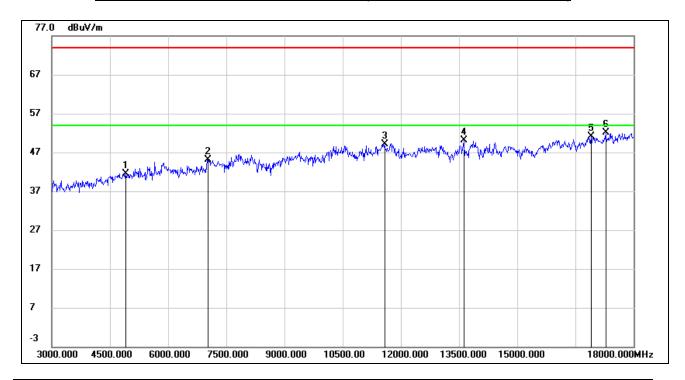


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5025.000	41.74	1.43	43.17	74.00	-30.83	peak
2	7755.000	39.07	7.29	46.36	74.00	-27.64	peak
3	9360.000	38.70	9.36	48.06	74.00	-25.94	peak
4	11520.000	36.72	13.38	50.10	74.00	-23.90	peak
5	13875.000	33.95	16.44	50.39	74.00	-23.61	peak
6	17715.000	30.21	22.56	52.77	74.00	-21.23	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The High Pass filter loss factor already add into the correct factor.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



#### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

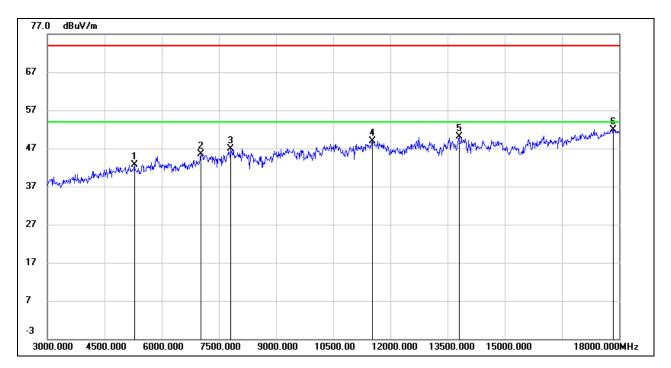


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4905.000	40.67	0.88	41.55	74.00	-32.45	peak
2	7035.000	39.30	5.81	45.11	74.00	-28.89	peak
3	11580.000	35.90	13.23	49.13	74.00	-24.87	peak
4	13620.000	34.09	15.99	50.08	74.00	-23.92	peak
5	16905.000	31.09	19.99	51.08	74.00	-22.92	peak
6	17280.000	30.52	21.59	52.11	74.00	-21.89	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The High Pass filter loss factor already add into the correct factor.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



#### **HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**



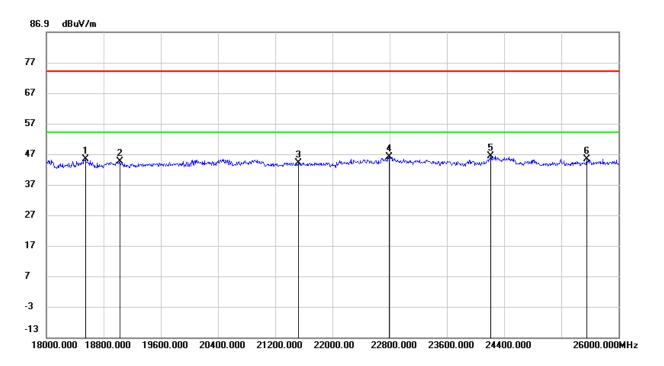
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5280.000	40.57	2.10	42.67	74.00	-31.33	peak
2	7020.000	39.63	5.78	45.41	74.00	-28.59	peak
3	7815.000	39.08	7.83	46.91	74.00	-27.09	peak
4	11520.000	35.49	13.38	48.87	74.00	-25.13	peak
5	13800.000	32.93	17.10	50.03	74.00	-23.97	peak
6	17850.000	28.67	23.32	51.99	74.00	-22.01	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The High Pass filter loss factor already add into the correct factor.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



# 7.5. SPURIOUS EMISSIONS (18~26GHz)

# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

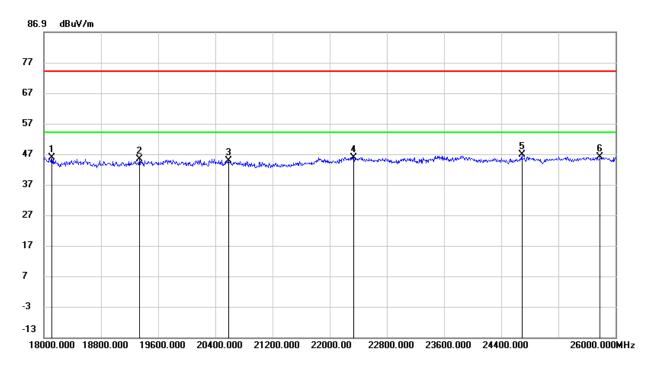


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18544.000	49.76	-4.46	45.30	74.00	-28.70	peak
2	19024.000	49.49	-4.91	44.58	74.00	-29.42	peak
3	21528.000	49.92	-5.78	44.14	74.00	-29.86	peak
4	22792.000	51.80	-5.71	46.09	74.00	-27.91	peak
5	24216.000	49.94	-3.65	46.29	74.00	-27.71	peak
6	25552.000	47.04	-1.72	45.32	74.00	-28.68	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.



# HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18112.000	49.85	-4.10	45.75	74.00	-28.25	peak
2	19336.000	50.20	-4.97	45.23	74.00	-28.77	peak
3	20584.000	49.74	-5.02	44.72	74.00	-29.28	peak
4	22336.000	51.86	-5.97	45.89	74.00	-28.11	peak
5	24688.000	48.89	-2.11	46.78	74.00	-27.22	peak
6	25784.000	47.58	-1.49	46.09	74.00	-27.91	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

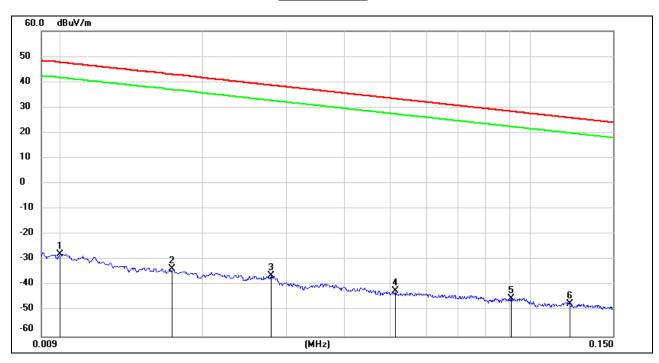
Note: All test modes had been tested, only the worst data record in the report.



## 7.6. SPURIOUS EMISSIONS BELOW 30MHz

# SPURIOUS EMISSIONS (LOW CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

### 9kHz~ 150kHz

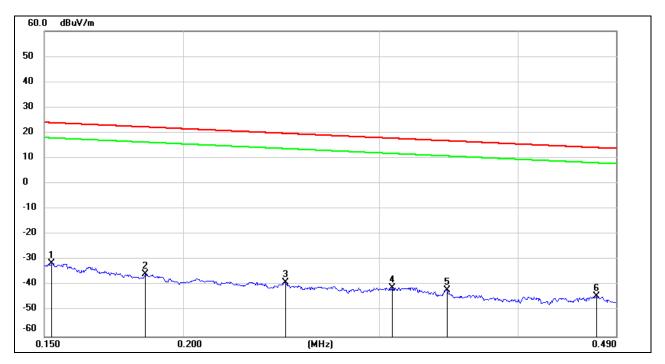


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	73.72	-	-27.68	47.60			-75.28	peak
			101.40			-79.18	-3.9		
2	0.0171	67.88	-	-33.48	42.94			-76.42	peak
			101.36			-84.98	-8.56		
3	0.0279	65.17	-	-36.21	38.69			-74.90	peak
			101.38			-87.71	-12.81		
4	0.0514	59.18	-	-42.30	33.38			-75.68	peak
			101.48			-93.8	-18.12		
5	0.0911	56.61	-	-45.11	28.41			-73.52	peak
			101.72			-96.61	-23.09		
6	0.1212	54.53	-	-47.20	25.93			-73.13	peak
			101.73			-98.7	-25.57		

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV 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.  $dBuA/m = dBuV/m 20log10(120\pi) = dBuV/m -51.5$ .



# 150kHz ~ 490kHz

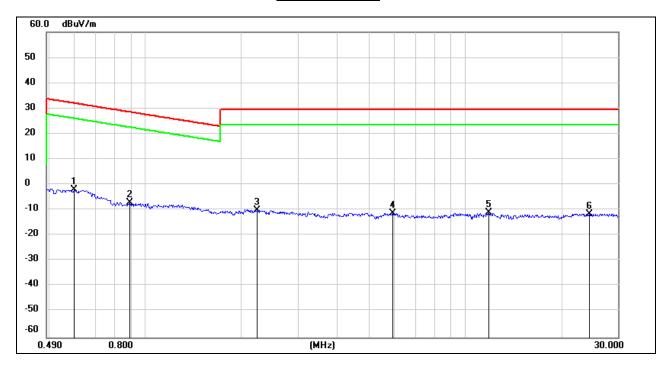


No.	Frequency	Reading	Correct	FCC	FCC	ISED	ISED	Margin	Remark
				Result	Limit	Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1524	70.30	-	-31.33	23.94			-55.27	peak
			101.63			-82.83	-27.56		
2	0.1847	66.11	-	-35.59	22.28			-57.87	peak
			101.70			-87.09	-29.22		
3	0.2472	62.95	-	-38.85	19.74			-58.59	peak
			101.80			-90.35	-31.76		
4	0.3084	60.95	-	-40.91	17.82			-58.73	peak
			101.86			-92.41	-33.68		-
5	0.3452	59.99	-	-41.91	16.84			-58.75	peak
			101.90			-93.41	-34.66		-
6	0.4707	57.73	-	-44.31	14.15			-58.46	peak
			102.04			-95.81	-37.35		-

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV 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.  $dBuA/m = dBuV/m 20log10(120\pi) = dBuV/m -51.5$ .



### 490kHz ~ 30MHz



No.	Frequency	Reading	Correct	FCC	FCC	ISED	ISED	Margin	Remark
				Result	Limit	Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.5967	60.00	-62.08	-2.08	32.09	-53.58	-19.41	-34.17	peak
2	0.8931	55.09	-62.20	-7.11	28.59	-58.61	-22.91	-35.70	peak
3	2.2364	51.80	-61.76	-9.96	29.54	-61.46	-21.96	-39.50	peak
4	5.9493	50.13	-61.35	-11.22	29.54	-62.72	-21.96	-40.76	peak
5	11.8513	50.06	-60.88	-10.82	29.54	-62.32	-21.96	-40.36	peak
6	24.5106	49.08	-60.49	-11.41	29.54	-62.91	-21.96	-40.95	peak

Note: 1. Measurement = Reading Level + Correct Factor.

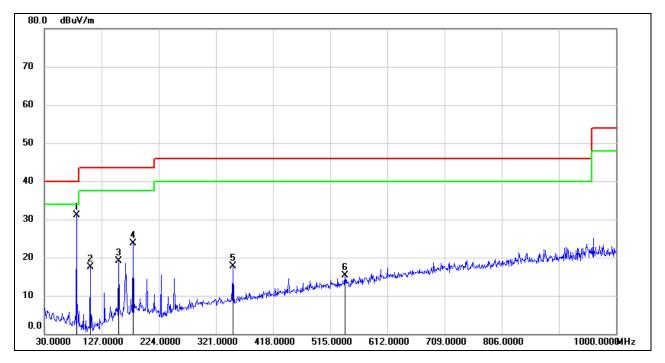
- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
  - 4.  $dBuA/m = dBuV/m 20log10(120\pi) = dBuV/m -51.5$ .

Note: All test modes had been tested, only the worst data record in the report.



## 7.7. SPURIOUS EMISSIONS BELOW 1GHz AND ABOVE 30MHz

### SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



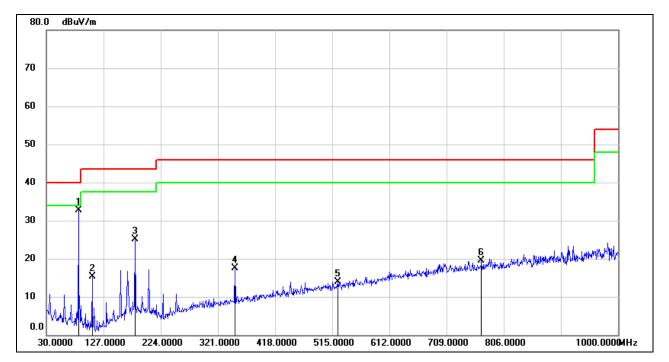
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	84.3200	51.90	-20.81	31.09	40.00	-8.91	QP
2	107.6000	39.02	-21.44	17.58	43.50	-25.92	QP
3	156.1000	37.15	-18.01	19.14	43.50	-24.36	QP
4	180.3500	40.33	-16.53	23.80	43.50	-19.70	QP
5	350.1000	31.25	-13.52	17.73	46.00	-28.27	QP
6	540.2199	25.39	-10.04	15.35	46.00	-30.65	QP

Note: 1. Result Level = Read Level + Correct Factor.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



### SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	84.3200	53.42	-20.81	32.61	40.00	-7.39	QP
2	107.6000	36.69	-21.44	15.25	43.50	-28.25	QP
3	180.3500	41.56	-16.53	25.03	43.50	-18.47	QP
4	350.1000	31.05	-13.52	17.53	46.00	-28.47	QP
5	524.7000	24.27	-10.33	13.94	46.00	-32.06	QP
6	768.1700	25.54	-6.11	19.43	46.00	-26.57	QP

Note: 1. Result Level = Read Level + Correct Factor.

- 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

Note: All test modes had been tested, only the worst data record in the report.



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# 8. ANTENNA REQUIREMENTS

# **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.

## Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

	FND OF REPORT
Somplies	
Complies	
<u>RESULTS</u>	