

CFR 47 FCC PART 15 SUBPART C ISED RSS-210 ISSUE 9

TEST REPORT

For

TOY Receiver

MODEL NUMBER: GR3B

FCC ID: G6DGR3B

IC: 9650A-GR3B

REPORT NUMBER: 4788995274.1-2

ISSUE DATE: May 14, 2019

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	05/14/2019	Initial Issue	



Summary of Test Results					
Clause	Clause Test Items IC Rules				
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 Clause Annex B B.10 CFR 47 FCC §15.205 and §15.209 RSS-GEN Clause 8.9 RSS-GEN Clause 8.10	Pass		
3	Antenna Requirement	FCC Part 15.203 ISED RSS-Gen Clause 6.8	Pass		



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1. ATTESTATION OF TEST RESULTS

Applicant Information

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

EOI Description

EUT Name:	TOY Receiver
Model:	GR3B
Brand Name:	/
Sample Status:	Normal
Sample Received Date:	April 16, 2019
Date of Tested:	April 16, 2019 ~ May 13, 2019

APPLICABLE STANDARDS					
STANDARD TEST RESULTS					
CFR 47 FCC PART 15 SUBPART C	PASS				
ISED RSS-210 Issue 9	PASS				
ISED RSS-GEN Issue 5	PASS				

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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 9 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 Delcaration of Conformity (DoC) and Certification
Accreditation Certificate	rules IC(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. 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
- 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.



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 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-18Gz)			
(1GHz to 26GHz)(include Fundamental emission)	5.23dB (18GHz-26Gz)			
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	GR3B				
Product Description	Operation Frequency	2410 MHz ~ 2473 MHz			
Product Description	Modulation Type GFSK				
Battery	DC 9.6V				

5.2. MAXIMUM OUTPUT POWER

Frequency Range (MHz)	Number of Transmit Chains (NTX)	Frequency (MHz)	Channel Number	Max field strength (dBµV/m)
2410 ~ 2473	1	2410	1[32]	88.97

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	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	/	/

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)	
1	2410 ~ 2473	Wire Antenna	1.9	

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, CH 18, CH 32	2410MHz, 2442MHz, 2473MHz	

5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2410 ~ 2473MHz Band					
Test Se	oftware	/			
Modulation Type	Modulation Type Transmit Antenna		Test Channel		
woodlation Type	Number	CH 1	CH 18	CH 32	
GFSK	1	Default Default Defaul		Default	

5.7. TEST ENVIRONMENT

Environment Parameter	Selected Va	lues During Tests
Relative Humidity	55	5 ~ 65%
Atmospheric Pressure:	1	025Pa
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



5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
1	/	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	/	/	/	/	/

ACCESSORY

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.
1	/	/	/	/	/

TEST SETUP

The EUT have the engineer mode inside.

SETUP DIAGRAM FOR TEST



Note: New battery was used during all tests.



5.9. MEASURING INSTRUMENT AND SOFTWARE USED

	Radiated Emissions							
	Instrument							
Used	Equipment	Manufacturer	Model No.		Ser	ial No.	Last Cal.	Next Cal.
\checkmark	MXE EMI Receiver	KESIGHT	Ν	9038A	MY56	6400036	Dec.10,2018	Dec.10,2019
V	Hybrid Log Periodic Antenna	TDK	HLF	P-3003C	13	80960	Sep.17,2018	Sep.17,2021
\checkmark	Preamplifier	HP	8	447D	2944	A09099	Dec.10,2018	Dec.10,2019
V	EMI Measurement Receiver	R&S	E	SR26	10	1377	Dec.10,2018	Dec.10,2019
\checkmark	Horn Antenna	TDK	HR	N-0118	13	0939	Sep.17,2018	Sep.17,2021
V	High Gain Horn Antenna	Schwarzbeck	BBł	HA-9170	(691	Aug.18,2018	Aug.18,2021
V	Preamplifier	TDK	PA-02-0118			S-305- 0066	Dec.10,2018	Dec.10,2019
V	Preamplifier	TDK	PA-02-2			S-307- 0003	Dec.10,2018	Dec.10,2019
\checkmark	Loop antenna	Schwarzbeck	1519B		00	8000	Jan.17,2019	Jan.17,2022
			S	oftware			•	
Used	Descr			Manufact	urer	1	Name	Version
V	Test Software disturl	bance		Farac	ad EZ-EM		Z-EMC	Ver. UL-3A1
				instrumer			1	
Used	Equipment	Manufacturer	Mo	del No.	Ser	ial No.	Last Cal.	Next Cal.
\checkmark	Spectrum Analyzer	Keysight	N	9030A	MY55	5410512	Dec.10,2018	Dec.10,2019
\checkmark	Spectrum Analyzer	R&S	FSV40		10)1117	Dec.10,2018	Dec.10,2019
V	Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS			4	Dec.10,2018	Dec.10,2019
V	High Pass Filter	Wi	270	HKX10- 00-3000- 00-40SS		23	Dec.10,2018	Dec.10,2019



6. ANTENNA PORT TEST RESULTS

6.1. ON TIME AND DUTY CYCLE

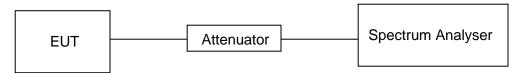
<u>LIMITS</u>

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP

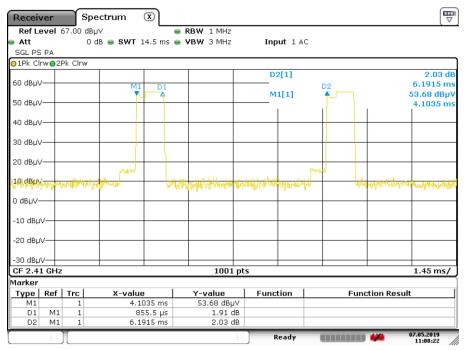


RESULTS

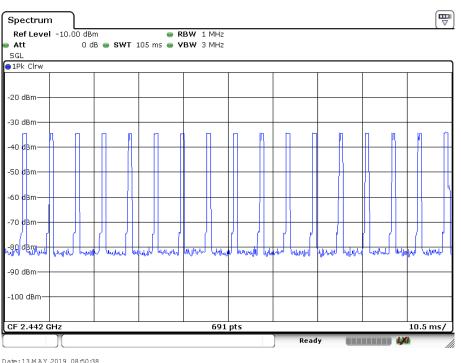
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)
GFSK	14.552	100	0.1455	14.55	-16.74

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

ON TIME AND DUTY CYCLE MID CH PLOT



Date: 7.MAY.2019 11:08:22



ON TIME AND DUTY CYCLE MID CH PLOT-2

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



6.2. 20 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

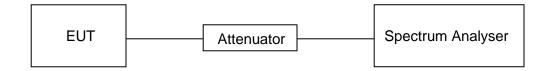
CFR 47 FCC Part15 (15.249) , Subpart C RSS-Gen Issue 5					
Section	Test Item	Limit	Frequency Range (MHz)		
CFR 47 FCC 15.215 (c)	20dB Bandwidth	for reporting purposes only	2400-2483.5		
ISED RSS-Gen Clause 6.7 Issue 5	99% Occupied Bandwidth	For reporting purposes only.	2400-2483.5		

TEST PROCEDURE

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 relative to the maximum level measured in the fundamental emission.

TEST SETUP

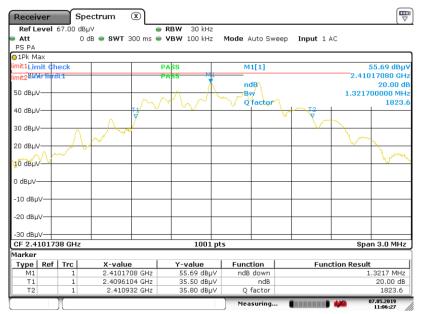




RESULTS

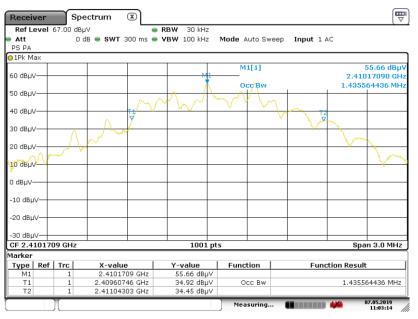
Frequency	20dB bandwidth	99% bandwidth	Result
(MHz)	(MHz)	(MHz)	
2410	1.3217	1.4356	PASS

20 dB BANDWIDTH LOW CH



Date: 7.MAY.2019 11:06:27

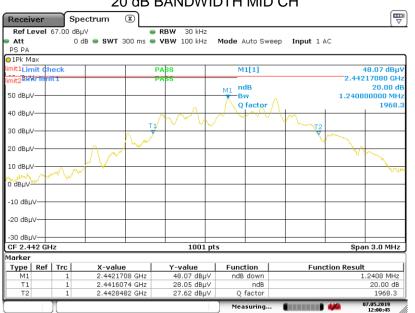
99% OCCUPIED BANDWIDTH LOW CH



Date: 7.MAY.2019 11:03:14

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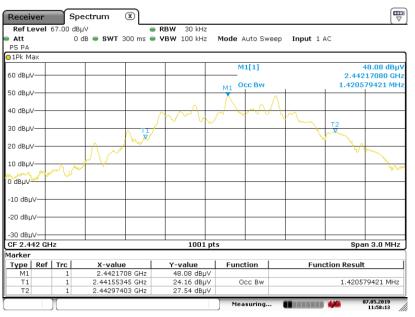
Frequency	20dB bandwidth	99% bandwidth	Result
(MHz)	(MHz)	(MHz)	
2443	1.2408	1.4206	PASS



20 dB BANDWIDTH MID CH

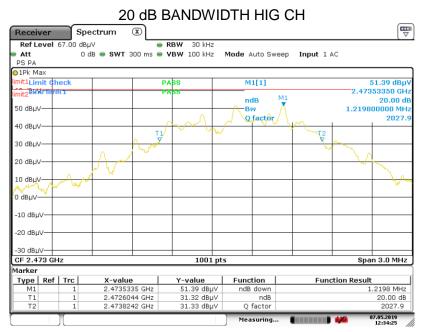
Date: 7.MAY.2019 12:00:45

99% OCCUPIED BANDWIDTH MID CH



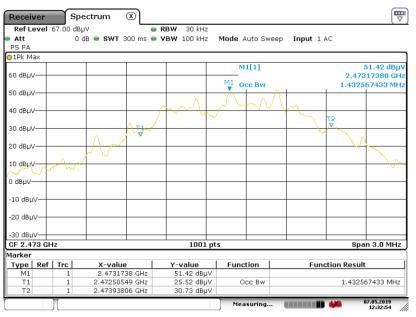
Date: 7.MAY.2019 11:58:14

Frequency	20dB bandwidth	99% bandwidth	Result
(MHz)	(MHz)	(MHz)	
2473	1.2198	1.4326	PASS



Date: 7.MAY.2019 12:34:25

99% OCCUPIED BANDWIDTH HIG CH



Date: 7.MAY.2019 12:32:54



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)(e)

ISED RSS-210 Issue 9 Clause Annex B B.10

The field strength of emissions from intentional radiators operated within these frequency bands					
Frequency (MHz)					
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/m) at 3 m		
(11112)		Quasi	-Peak	
30 - 88	100	40		
88 - 216	150	43.5		
216 - 960	200	46		
Above 960	500	54		
Above 1000	500	Peak	Average	
	500	74	54	

Emissions radiated outside of the specified frequency bands below 30MHz				
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			

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



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.B • 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:

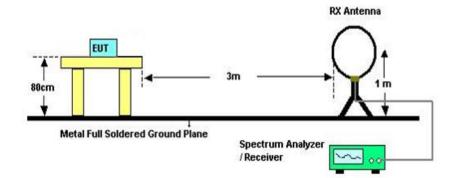
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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 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 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

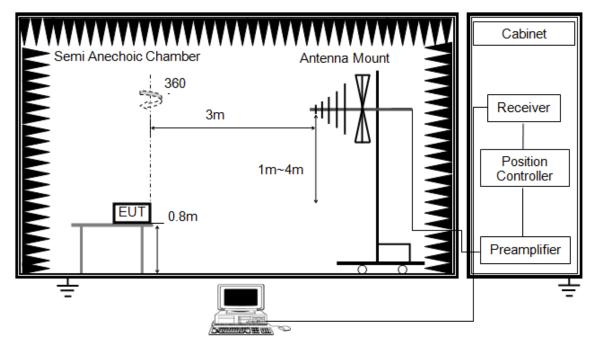
6. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the 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.

7. Although these tests were performed other than open area test 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 based on KDB 414788.

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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.

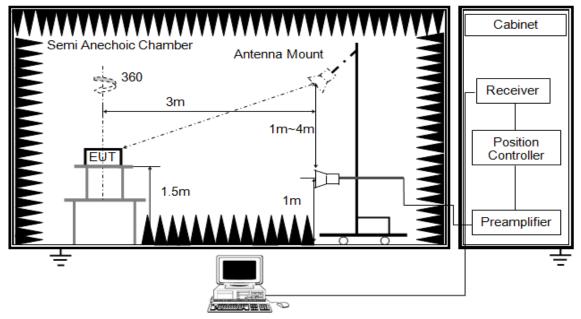
3. The EUT was placed on a turntable with 80cm above ground.

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. For measurement below 1GHz, 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 1G



The setting of the spectrum analyser

RBW	1M
IV BWV	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 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.

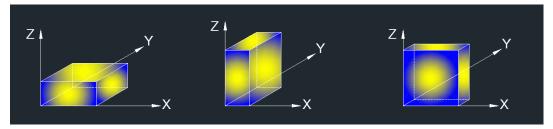
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, 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 6.1.ON TIME AND DUTY CYCLE.



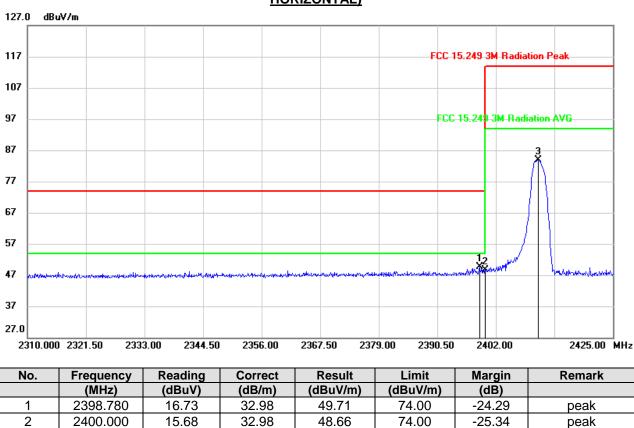
X axis, Y axis, Z axis positions:



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.



7.2. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS



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

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

50.76

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

83.82

114.00

-30.18

peak

3. Peak: Peak detector.

2410.280

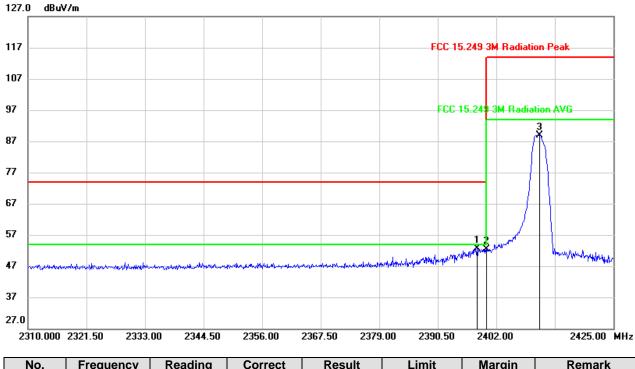
3

4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

33.06



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



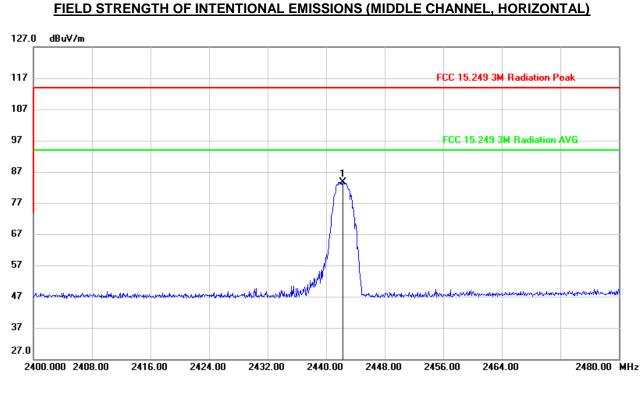
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2398.205	19.77	32.98	52.75	74.00	-21.25	peak
2	2400.000	19.34	32.98	52.32	74.00	-21.68	peak
3	2410.510	55.91	33.06	88.97	114.00	-25.03	peak

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.





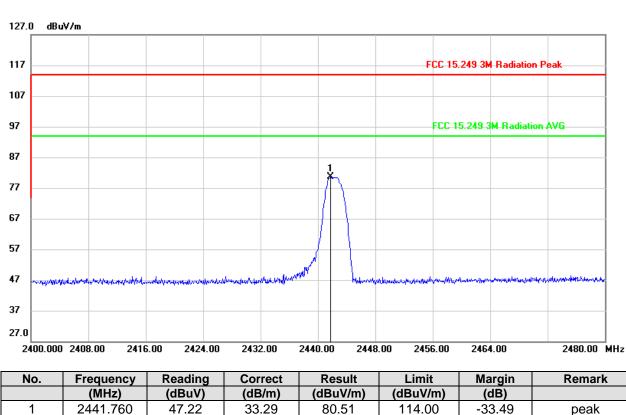
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2442.240	50.29	33.29	83.58	114.00	-30.42	peak

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.





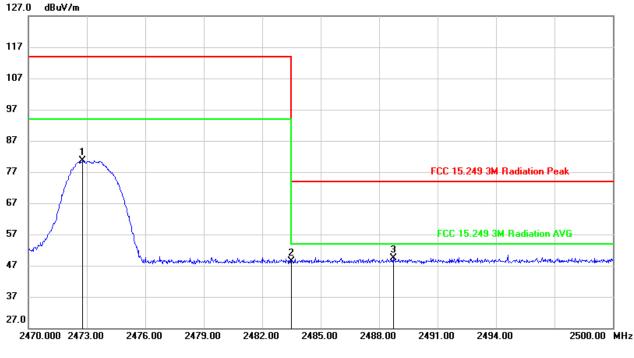
FIELD STRENGTH OF INTENTIONAL EMISSIONS (MIDDLE CHANNEL, VERTICAL)

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.





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

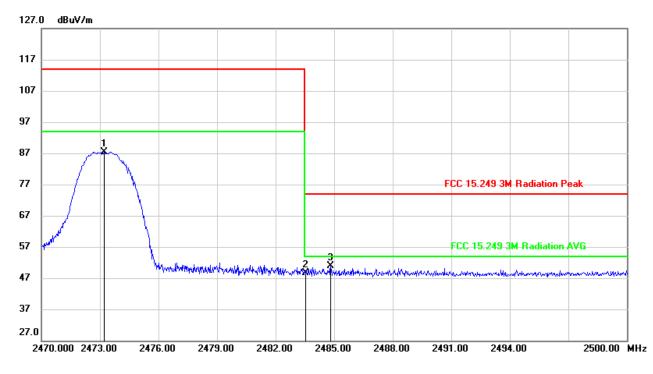
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2472.790	47.12	33.50	80.62	114.00	-33.38	peak
2	2483.500	14.87	33.58	48.45	74.00	-25.55	peak
3	2488.720	15.83	33.62	49.45	74.00	-24.55	peak

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.





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	2473.210	53.87	33.51	87.38	114.00	-26.62	peak
2	2483.530	15.01	33.58	48.59	74.00	-25.41	peak
3	2484.820	17.21	33.59	50.80	74.00	-23.20	peak

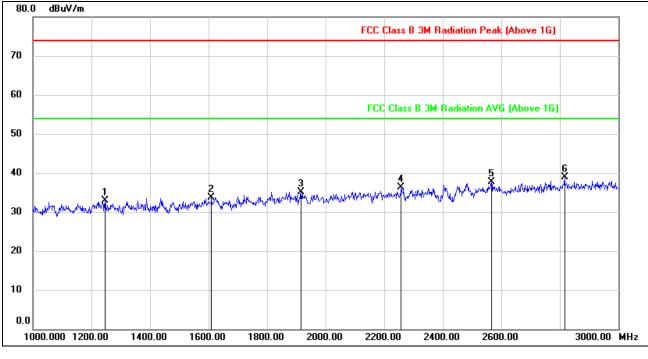
Note: 1. Measurement = Reading Level + Correct Factor.

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

3. Peak: Peak detector.



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	1246.000	44.99	-12.04	32.95	74.00	-41.05	peak
2	1610.000	44.47	-10.80	33.67	74.00	-40.33	peak
3	1916.000	44.46	-9.36	35.10	74.00	-38.90	peak
4	2258.000	44.02	-7.74	36.28	74.00	-37.72	peak
5	2566.000	44.17	-6.44	37.73	74.00	-36.27	peak
6	2816.000	44.14	-5.19	38.95	74.00	-35.05	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

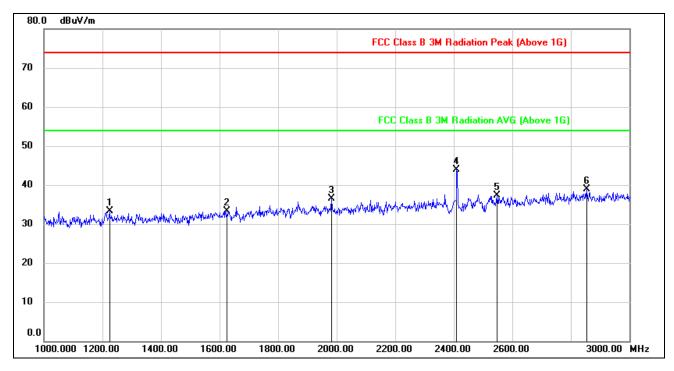
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.



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	1224.000	45.49	-12.12	33.37	74.00	-40.63	peak
2	1626.000	44.01	-10.77	33.24	74.00	-40.76	peak
3	1982.000	45.96	-9.42	36.54	74.00	-37.46	peak
4	2410.000	50.82	-6.92	43.90	74.00	-30.10	peak
5	2548.000	43.64	-6.37	37.27	74.00	-36.73	peak
6	2854.000	43.98	-5.00	38.98	74.00	-35.02	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

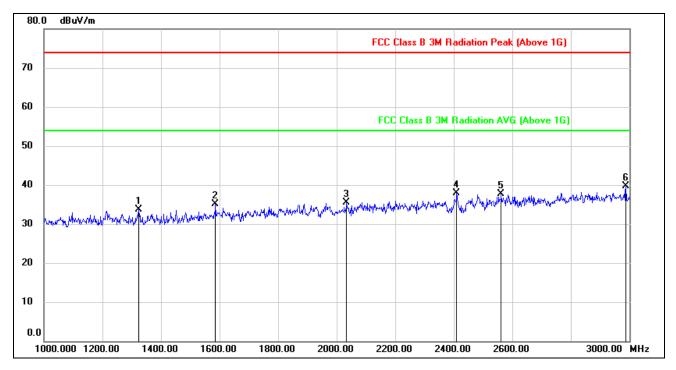
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.



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	1324.000	45.62	-11.87	33.75	74.00	-40.25	peak
2	1586.000	46.04	-10.96	35.08	74.00	-38.92	peak
3	2034.000	44.56	-9.15	35.41	74.00	-38.59	peak
4	2410.000	44.84	-6.92	37.92	74.00	-36.08	peak
5	2562.000	44.19	-6.43	37.76	74.00	-36.24	peak
6	2988.000	44.05	-4.37	39.68	74.00	-34.32	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

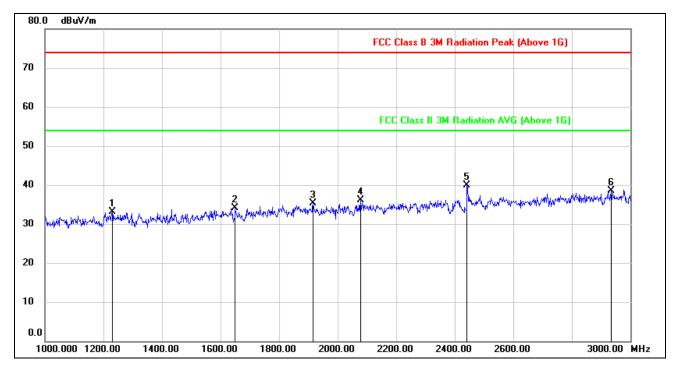
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.



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	1230.000	45.14	-12.10	33.04	74.00	-40.96	peak
2	1650.000	44.83	-10.71	34.12	74.00	-39.88	peak
3	1916.000	44.69	-9.36	35.33	74.00	-38.67	peak
4	2078.000	44.93	-8.77	36.16	74.00	-37.84	peak
5	2442.000	46.55	-6.65	39.90	74.00	-34.10	peak
6	2934.000	43.06	-4.60	38.46	74.00	-35.54	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

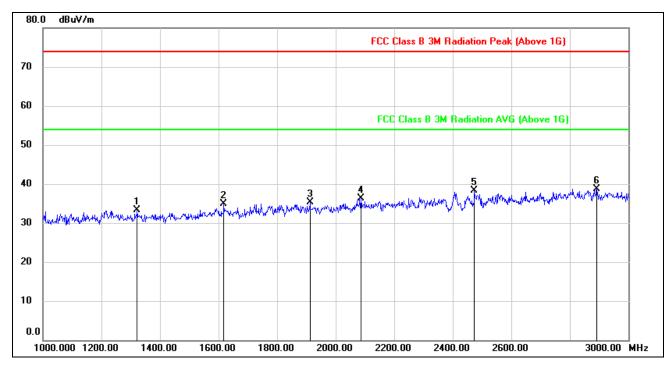
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.



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	1322.000	45.17	-11.86	33.31	74.00	-40.69	peak
2	1618.000	45.62	-10.79	34.83	74.00	-39.17	peak
3	1912.000	44.73	-9.35	35.38	74.00	-38.62	peak
4	2086.000	45.08	-8.71	36.37	74.00	-37.63	peak
5	2474.000	44.73	-6.38	38.35	74.00	-35.65	peak
6	2892.000	43.57	-4.79	38.78	74.00	-35.22	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

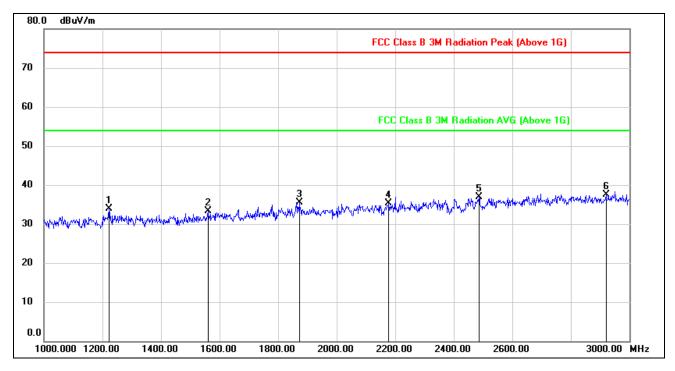
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.



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	1222.000	46.10	-12.12	33.98	74.00	-40.02	peak
2	1560.000	44.47	-11.20	33.27	74.00	-40.73	peak
3	1872.000	44.99	-9.43	35.56	74.00	-38.44	peak
4	2178.000	43.52	-8.20	35.32	74.00	-38.68	peak
5	2486.000	43.25	-6.29	36.96	74.00	-37.04	peak
6	2920.000	42.21	-4.66	37.55	74.00	-36.45	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

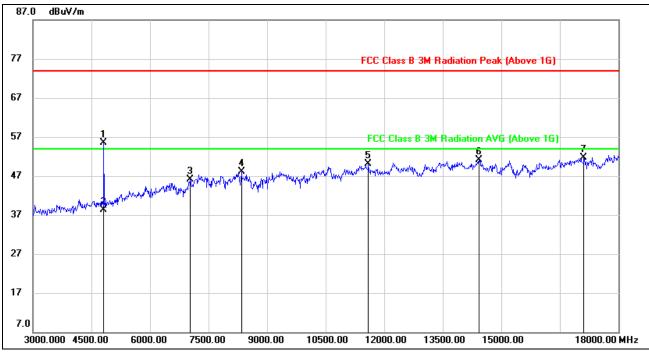
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in then spurious frequency bands and the authorized band was not corrected for BRF losses.



7.4. SPURIOUS EMISSIONS (3~18GHz)



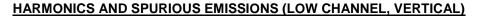
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

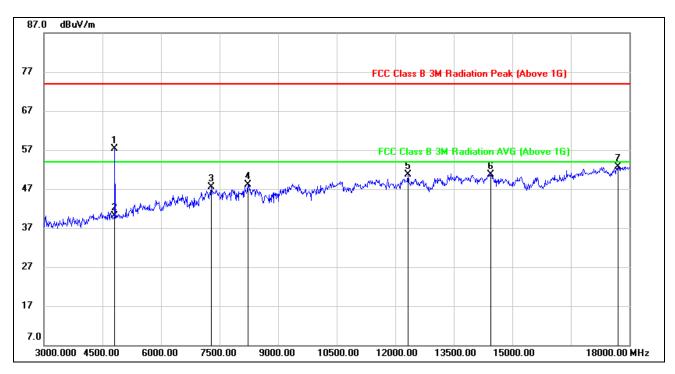
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4820.000	55.66	-0.21	55.45	74.00	-18.55	peak
2	4820.000	55.66	-0.21	38.71	54.00	-15.29	AVG
3	7035.000	39.27	6.78	46.05	74.00	-27.95	peak
4	8340.000	39.48	8.59	48.07	74.00	-25.93	peak
5	11595.000	35.93	14.17	50.10	74.00	-23.90	peak
6	14430.000	34.81	16.39	51.20	74.00	-22.80	peak
7	17115.000	30.92	20.81	51.73	74.00	-22.27	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.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4820.000	57.56	-0.21	57.35	74.00	-16.65	peak
2	4820.000	57.56	-0.21	40.61	54.00	-13.39	AVG
3	7290.000	40.34	7.11	47.45	74.00	-26.55	peak
4	8220.000	38.80	9.40	48.20	74.00	-25.80	peak
5	12330.000	36.24	14.38	50.62	74.00	-23.38	peak
6	14445.000	34.42	16.37	50.79	74.00	-23.21	peak
7	17700.000	30.54	22.24	52.78	74.00	-21.22	peak

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

3. Peak: Peak detector.

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

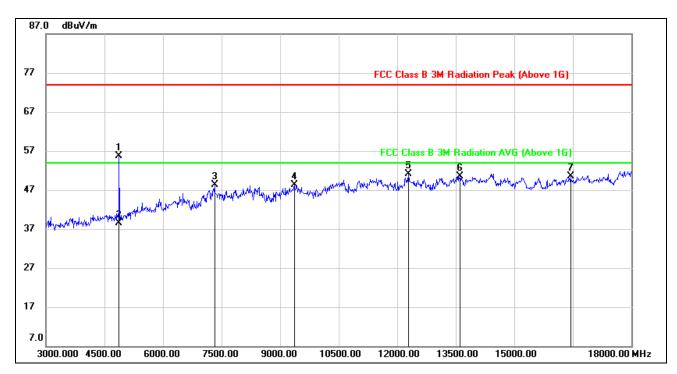
5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.

6. The High Pass filter loss factor already add into the correct factor.

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







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4884.000	55.91	-0.12	55.79	74.00	-18.21	peak
2	4884.000	55.91	-0.12	39.05	54.00	-14.95	AVG
3	7320.000	41.18	7.20	48.38	74.00	-25.62	peak
4	9360.000	38.18	10.05	48.23	74.00	-25.77	peak
5	12285.000	36.81	14.37	51.18	74.00	-22.82	peak
6	13605.000	34.41	16.07	50.48	74.00	-23.52	peak
7	16440.000	31.79	18.69	50.48	74.00	-23.52	peak

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

3. Peak: Peak detector.

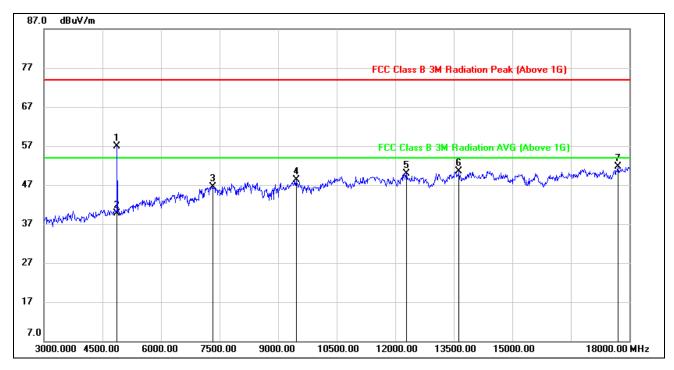
4. AVG Result=Peak Result + Duty Cycle Correction Factor.

5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.

6. The High Pass filter loss factor already add into the correct factor.

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





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4884.000	56.99	-0.12	56.87	74.00	-17.13	peak
2	4884.000	56.99	-0.12	40.13	54.00	-13.87	AVG
3	7320.000	39.38	7.20	46.58	74.00	-27.42	peak
4	9465.000	37.89	10.41	48.30	74.00	-25.70	peak
5	12285.000	35.47	14.37	49.84	74.00	-24.16	peak
6	13635.000	34.40	16.01	50.41	74.00	-23.59	peak
7	17700.000	29.39	22.24	51.63	74.00	-22.37	peak

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

3. Peak: Peak detector.

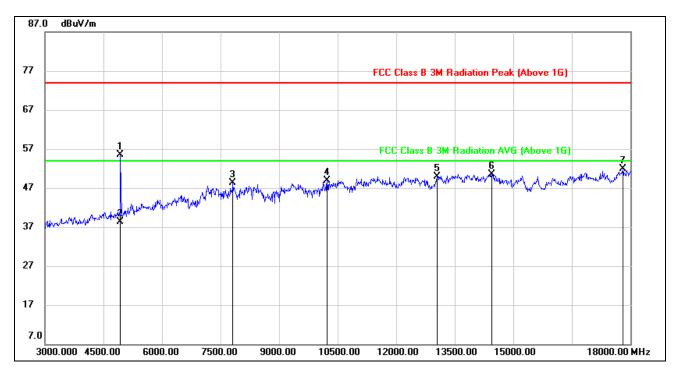
4. AVG Result=Peak Result + Duty Cycle Correction Factor.

5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.

6. The High Pass filter loss factor already add into the correct factor.

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

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



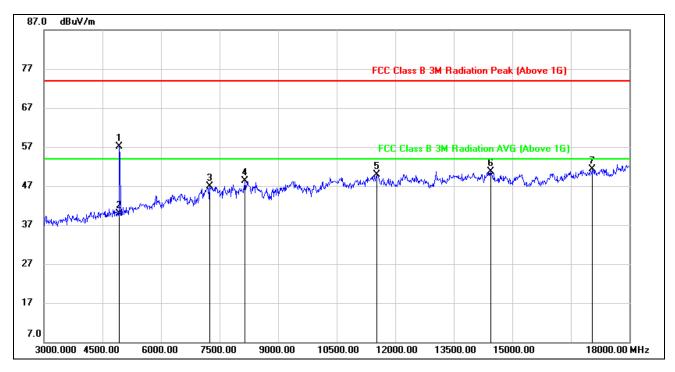
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4946.000	55.31	0.17	55.48	74.00	-18.52	peak
2	4946.000	55.31	0.17	38.74	54.00	-15.26	AVG
3	7815.000	39.59	8.81	48.40	74.00	-25.60	peak
4	10230.000	37.93	11.01	48.94	74.00	-25.06	peak
5	13050.000	35.13	14.85	49.98	74.00	-24.02	peak
6	14445.000	34.22	16.37	50.59	74.00	-23.41	peak
7	17805.000	28.63	23.22	51.85	74.00	-22.15	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.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain





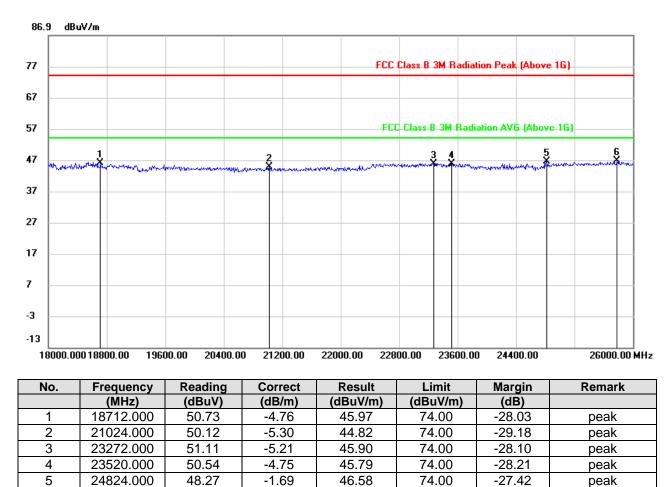
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4946.000	56.99	0.17	57.16	74.00	-16.84	peak
2	4946.000	56.99	0.17	40.42	54.00	-13.58	AVG
3	7245.000	39.97	7.00	46.97	74.00	-27.03	peak
4	8145.000	39.00	9.30	48.30	74.00	-25.70	peak
5	11535.000	35.85	14.10	49.95	74.00	-24.05	peak
6	14445.000	34.36	16.37	50.73	74.00	-23.27	peak
7	17055.000	30.82	20.57	51.39	74.00	-22.61	peak

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

- 3. Peak: Peak detector.
- 4. AVG Result=Peak Result + Duty Cycle Correction Factor.
- 5. For the Duty Cycle and Correction Factor, please refer to clause 6.1.
- 6. The High Pass filter loss factor already add into the correct factor.
- 7. 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)



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

-1.49

48.23

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

46.74

74.00

-27.26

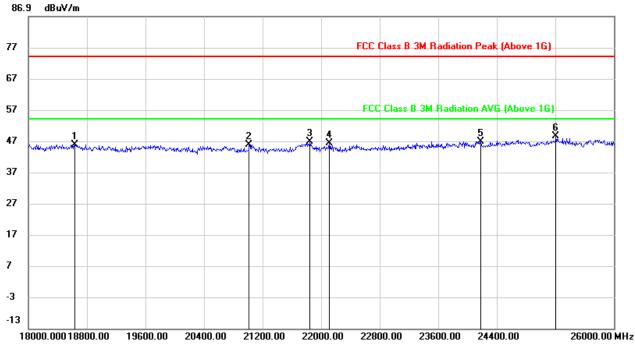
peak

3. Peak: Peak detector.

25784.000

6





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18632.000	50.51	-4.62	45.89	74.00	-28.11	peak
2	21016.000	51.06	-5.29	45.77	74.00	-28.23	peak
3	21848.000	52.76	-5.95	46.81	74.00	-27.19	peak
4	22112.000	52.47	-6.17	46.30	74.00	-27.70	peak
5	24184.000	50.54	-3.71	46.83	74.00	-27.17	peak
6	25208.000	49.63	-1.16	48.47	74.00	-25.53	peak

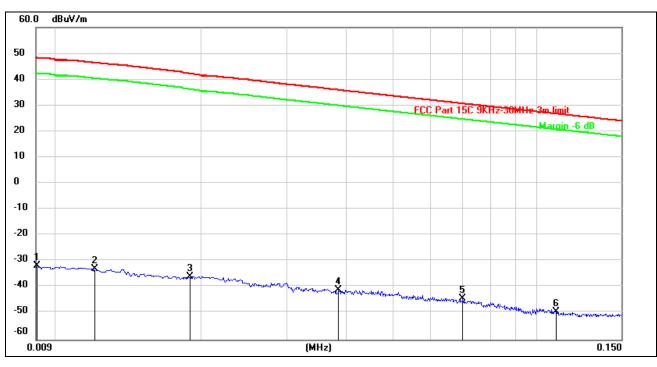
If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
Peak: Peak detector.

Note: All test mode has been tested, only the worst data record in the report.



7.6. SPURIOUS EMISSIONS BELOW 30M

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



9kHz~ 150kHz

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0091	69.79	-101.33	-31.54	48.29	-79.83	peak
2	0.0120	68.66	-101.39	-32.73	46.40	-79.13	peak
3	0.0189	65.49	-101.35	-35.86	42.24	-78.10	peak
4	0.0386	60.46	-101.43	-40.97	35.91	-76.88	peak
5	0.0700	57.34	-101.57	-44.23	30.70	-74.93	peak
6	0.1100	52.42	-101.77	-49.35	26.78	-76.13	peak

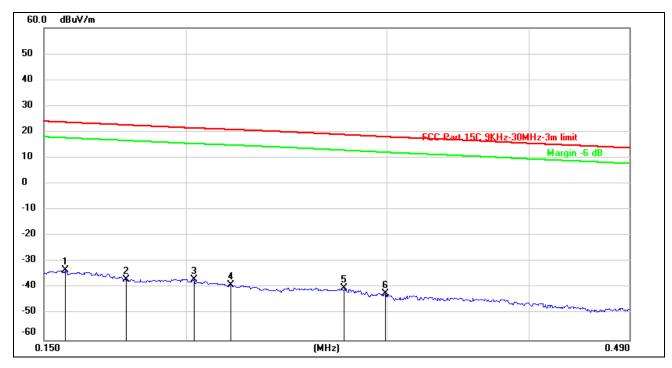
Note: 1. Measurement = Reading Level + Correct Factor.

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.



<u>150kHz ~ 490kHz</u>



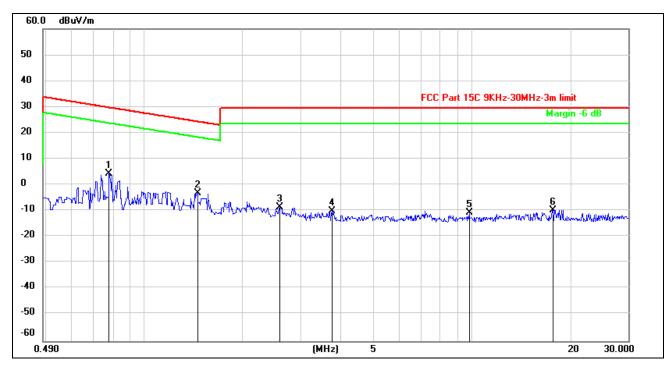
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1565	68.53	-101.65	-33.12	23.72	-56.84	peak
2	0.1771	64.99	-101.68	-36.69	22.64	-59.33	peak
3	0.2033	64.90	-101.72	-36.82	21.46	-58.28	peak
4	0.2190	62.77	-101.75	-38.98	20.91	-59.89	peak
5	0.2754	61.72	-101.83	-40.11	18.93	-59.04	peak
6	0.2993	59.83	-101.85	-42.02	18.08	-60.10	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.

<u>490kHz ~ 30MHz</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.7799	66.40	-62.13	4.27	29.77	-25.50	peak
2	1.4516	58.81	-62.06	-3.25	24.37	-27.62	peak
3	2.5935	53.11	-61.68	-8.57	29.54	-38.11	peak
4	3.7406	51.30	-61.40	-10.10	29.54	-39.64	peak
5	9.8152	50.08	-60.82	-10.74	29.54	-40.28	peak
6	17.6938	51.19	-60.92	-9.73	29.54	-39.27	peak

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

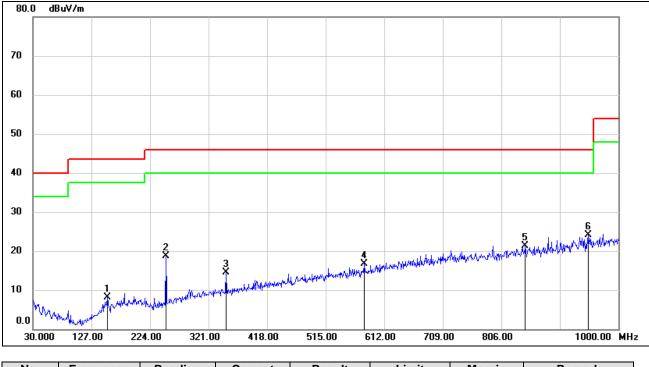
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

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.



7.7. SPURIOUS EMISSIONS BELOW 1 GHz





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	153.1900	26.13	-18.07	8.06	43.50	-35.44	QP
2	250.1900	34.76	-16.12	18.64	46.00	-27.36	QP
3	350.1000	27.69	-13.16	14.53	46.00	-31.47	QP
4	579.0200	25.44	-8.74	16.70	46.00	-29.30	QP
5	845.7700	25.82	-4.60	21.22	46.00	-24.78	QP
6	949.5600	27.38	-3.35	24.03	46.00	-21.97	QP

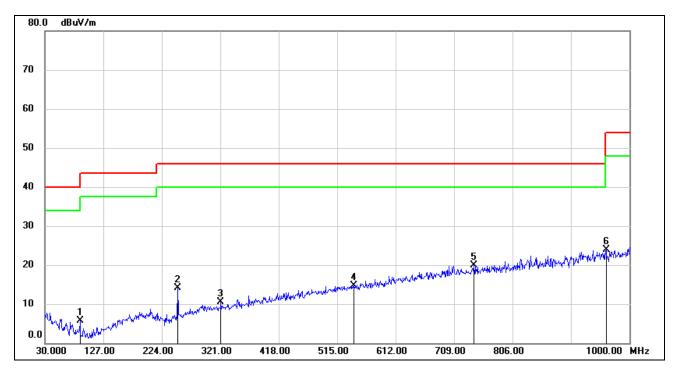
Note: 1. Result Level = Read Level + Correct Factor.

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	88.2000	26.74	-21.03	5.71	43.50	-37.79	QP
2	250.1900	30.21	-16.12	14.09	46.00	-31.91	QP
3	321.9700	24.06	-13.61	10.45	46.00	-35.55	QP
4	543.1300	24.28	-9.55	14.73	46.00	-31.27	QP
5	741.9800	25.93	-6.07	19.86	46.00	-26.14	QP
6	961.2000	27.38	-3.45	23.93	54.00	-30.07	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 mode has been tested, only the worst data record in the report.



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.

<u>RESULTS</u>

Complies

END OF REPORT