FCC RADIO TEST REPORT
FCC 47 CFR PART 15 SUBPART C

Test Standard	**FCC Part 15.231**
FCC ID	**KR5315-180528**
Trade name	**Continental**
Product name	**PAG Transmitter (Car Key)**
Model No.	**PAG-KEY-315-180528**
Operation Freq.	**TX: 315 MHz, RX: 125kHz**
Test Result	**Pass**

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.
The test Report of full or partial shall not copy. Without written approval of SGS Compliance Certification Services Inc.(Wugu Laboratory)

Testing Laboratory
1309

Approved by:

Sam Chuang
Manager

Reviewed by:

Jerry Chuang
Engineer

Revision History

Rev.	Issue Date	Revisions	Effect page	Revised By
00	January 26, 2018	Initial Issue	ALL	Allison Chen
01	February 27, 2018	1. Added Operation Frequency in section 1.1.	P.4	Allison Chen
02	April 3, 2018	1. Modify Test Procedure in section 4.2.2.	P.13	Allison Chen
03	April 30, 2018	1. Modify Model Discrepancy. 2. Add Test Data in section 4.4.4. 3. Add Loop Antenna in section 1.6.	P.4, P.7, P.26-29	Allison Chen

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

<table>
<tr><td>Applicant</td><td>Continental Automotive GmbH
Siemensstrasse 12 SV C TS RBG EMC-Laboratory
Regensburg, 93055
Germany</td></tr>
<tr><td>Manufacturer</td><td>Huf Hülsbeck & Fürst GmbH & Co. KG
Steeger Straße 17, 42551 Velbert, Germany</td></tr>
<tr><td>Equipment</td><td>PAG Transmitter (Car Key)</td></tr>
<tr><td>Model Name</td><td>PAG-KEY-315-180528</td></tr>
<tr><td>Model Discrepancy</td><td>The function of the PANIC button is to locate the car remotely.
The function uses the same 315MHz IC as lock/unlock function.
Please see as below:
<table>
<tr><th>Variant</th><th>Porsche part number</th><th>Continental part number</th><th>Product reference</th></tr>
<tr><td>Transmitter Keyless 315 MHz with Panic</td><td>970 637 347 xx</td><td>A2.C762-9820-2-00</td><td>PAG-KEY-315-180528</td></tr>
<tr><td>Transmitter Keyless 315 MHz without Panic</td><td>970 637 348 xx</td><td>A2.C762-9840-2-00</td><td>PAG-KEY-315-180528</td></tr>
</table></td></tr>
<tr><td>Received Date</td><td>January 5, 2018</td></tr>
<tr><td>Date of Test</td><td>January 9 ~ January 25, 2018; April 26, 2018</td></tr>
<tr><td>Periodic operation</td><td>☒ (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
☐ (2) A transmitter activated automatically shall cease transmission within 5 seconds after activation
☐ (3) Periodic transmissions at regular predetermined intervals are not permitted.
☐ (4) Periodic transmissions (lower field strength): each transmission is not greater than 1 sec and the silent period between transmissions is at least 30 times the duration of the transmission but in no case less than 10 sec.</td></tr>
<tr><td>Power Operation</td><td>Battery 1 x CR2032 (Lithium Standard-Battery: 3V)</td></tr>
<tr><td>Operation Frequency</td><td>TX: 315 MHz, RX: 125kHz</td></tr>
</table>

1.2 EUT CHANNEL INFORMATION

Frequency Range	315 MHz
Modulation Type	ASK
Bandwidth	252.5325 KHz
Number of Channels	1 channel

Remark:
Refer as ANSI 63.10:2013 clause 5.6.1 Table 4 for test channels

Number of frequencies to be tested		
Frequency range in which device operates	**Number of frequencies**	**Location in frequency range of operation**
☒ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☐ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Type	Loop antenna (PCB routed antenna)
Antenna Gain	-29.24 dBi

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 1.4003
RF output power, conducted	+/- 1.1372
Power density, conducted	+/- 1.4003
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1GHz~8GHz	+/- 2.5975
3M Semi Anechoic Chamber / 8GHz~18GHz	+/- 2.6112
3M Semi Anechoic Chamber / 18GHz~26GHz	+/- 2.7389
3M Semi Anechoic Chamber / 26GHz~40GHz	+/- 2.9683
3M Semi Anechoic Chamber / 40GHz~60GHz	+/- 1.8509
3M Semi Anechoic Chamber / 60GHz~75GHz	+/- 1.9869
3M Semi Anechoic Chamber / 75GHz~110GHz	+/- 2.9651
3M Semi Anechoic Chamber / 110GHz~170GHz	+/- 2.7807
3M Semi Anechoic Chamber / 170GHz~220GHz	+/- 3.6437
3M Semi Anechoic Chamber / 220GHz~325GHz	+/- 4.2982

***Remark**:*
1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	N/A	Not applicable
Radiation	Jerry Chuang	-
RF Conducted	Jerry Chuang	-

Remark: *The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.*

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal Date**	**Cal Due**
Spectrum Analyzer	R&S	FSV 40	101073	10/02/2017	10/01/2018

3M 966 Chamber Test Site					
Equipment	**Manufacturer**	**Model**	**S/N**	**Cal Date**	**Cal Due**
Bilog Antenna	Sunol Sciences	JB3	A030105	06/20/2017	06/19/2018
Pre-Amplifier	EMEC	EM330	60609	06/07/2017	06/06/2018
Loop Ant	COM-POWER	AL-130	121051	03/21/2018	03/20/2019
Spectrum Analyzer	Agilent	E4446A	US42510252	11/27/2017	11/26/2018
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Pre-Amplifier	HP	8449B	3008A00965	06/27/2017	06/26/2018
Filter	N/A	580-6000	N/A	N/A	N/A
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	07/31/2017	07/30/2018
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	07/31/2017	07/30/2018
Horn Antenna	EMCO	3117	55165	02/19/2018	02/18/2019

Remark: *Each piece of equipment is scheduled for calibration once a year.*

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

There are no accessories and support equipment be used during the test.

EUT Accessories Equipment					
No.	**Equipment**	**Brand**	**Model**	**Series No.**	**FCC ID**
	N/A				

Support Equipment					
No.	**Equipment**	**Brand**	**Model**	**Series No.**	**FCC ID**
	N/A				

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC 15.231 Rules.

2. TEST SUMMERY

Standard Sec.	Chapter	Test Item	Result
15.203	1.2	Antenna Requirement	Pass
15.207	4.1	AC Power-line Conducted Emission	Not applicable
15.231(c)	4.2	Emission Bandwidth	Pass
15.231(b)	4.3	Fundamental Emission	Pass
15.209(b)	4.4	Transmitter Radiated Emission	Pass
15.231(a)(1)	4.5	Operation Restriction	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	315 MHz
RF Filed strength	Peak: 77.31 dBuv/m Average : 74.79 dBuv/m

Remark: Field strength performed Average level at 3m.

3.2 THE WORST MODE OF MEASUREMENT

Radiated Emission Measurement Above 1G	
Test Condition	**Band edge, Emission for Unwanted and Fundamental**
DC Voltage	**DC 3V**
Test Mode	**Mode 1:EUT power by Battery.**
Worst Mode	**☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4**
Worst Position	**☐ Placed in fixed position.** **☒ Placed in fixed position at X-Plane (E2-Plane)** **☐ Placed in fixed position at Y-Plane (E1-Plane)** **☐ Placed in fixed position at Z-Plane (H-Plane)**
Worst Polarity	**☒ Horizontal ☐ Vertical**

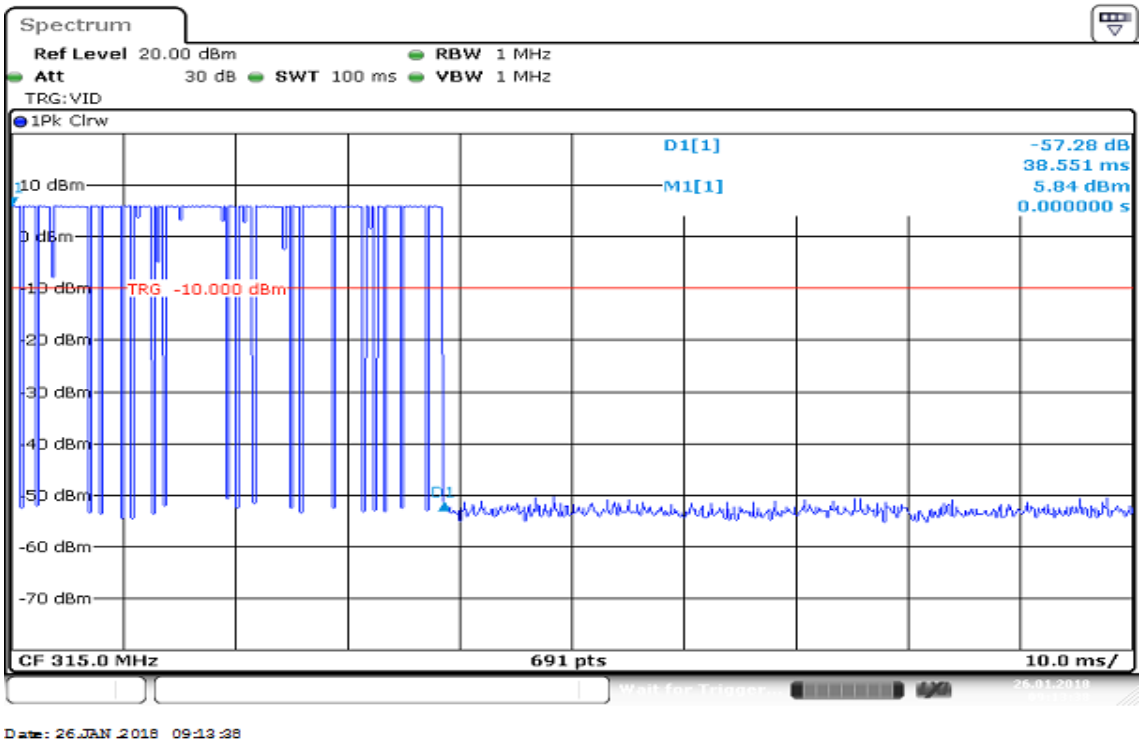
Radiated Emission Measurement Below 1G	
Test Condition	**Radiated Emission Below 1G**
DC Voltage	**DC 3V**
Test Mode	**Mode 1:EUT power by Battery.**
Worst Mode	**☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4**

Remark:
1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, Horizontal and Vertical for radiated measurement. The worst case(X-Plane and Horizontal) were recorded in this report
3. For below 1G, Radiation emission were performed the EUT transmit at the highest output power channel as worse case.

3.3 EUT DUTY CYCLE

315MHz

Duty Cycle	
TX ON (ms)	Duty Factor(dB)
38.551	-8.27



Notes:

1. The transmitter duty cycle was measured using a spectrum analyser in the time domain and calculated by 20 log($Time_{(on)}$ / [Period or 100 ms whichever is the lesser])
2. The EUT transmits for a $Time_{(on)}$ of 38.551 milliseconds within the specified 100ms period.

   20 log ($Time_{(on)}$ / [Period or 100 ms whichever is the lesser]).

   20 log (38.551/100) = -8.27dB

4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a) ,

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

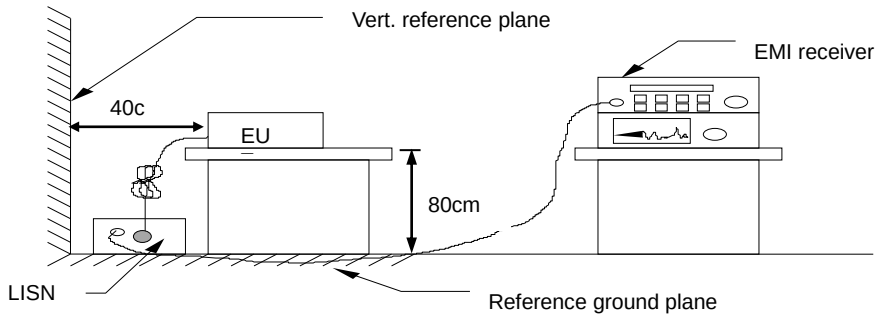
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI 63.10:2013 clause 6.2,

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete

4.1.3 Test Setup



4.1.4 Test Result

Not applicable

4.2 EMISSION BANDWIDTH

4.2.1 Test Limit

According to §15.231© ,

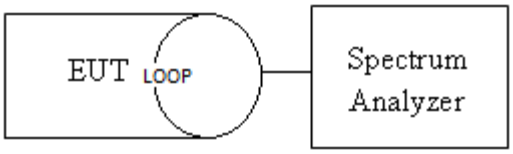
Limit	☒ 70 MHz – 900 MHz : Fc * 0.25 % ☐ Above 900 MHz : Fc * 0. 5 %

4.2.2 Test Procedure

Test method Refer as ANSI 63.10:2013 clause 6.9.2,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. RBW=10KHz, VBW ≥ 3 x RBW, Detector = Peak, Trace mode = Max hold, Sweep = Auto., to measurement 20dB Bandwidth
4. SA set RBW = 1% ~ 5% OBW, VBW = three times the RBW and Detector = Peak, to measurement 99% Bandwidth
5. Measure and record the result of 20 dB Bandwidth and 99% Bandwidth. in the test report.

4.2.3 Test Setup

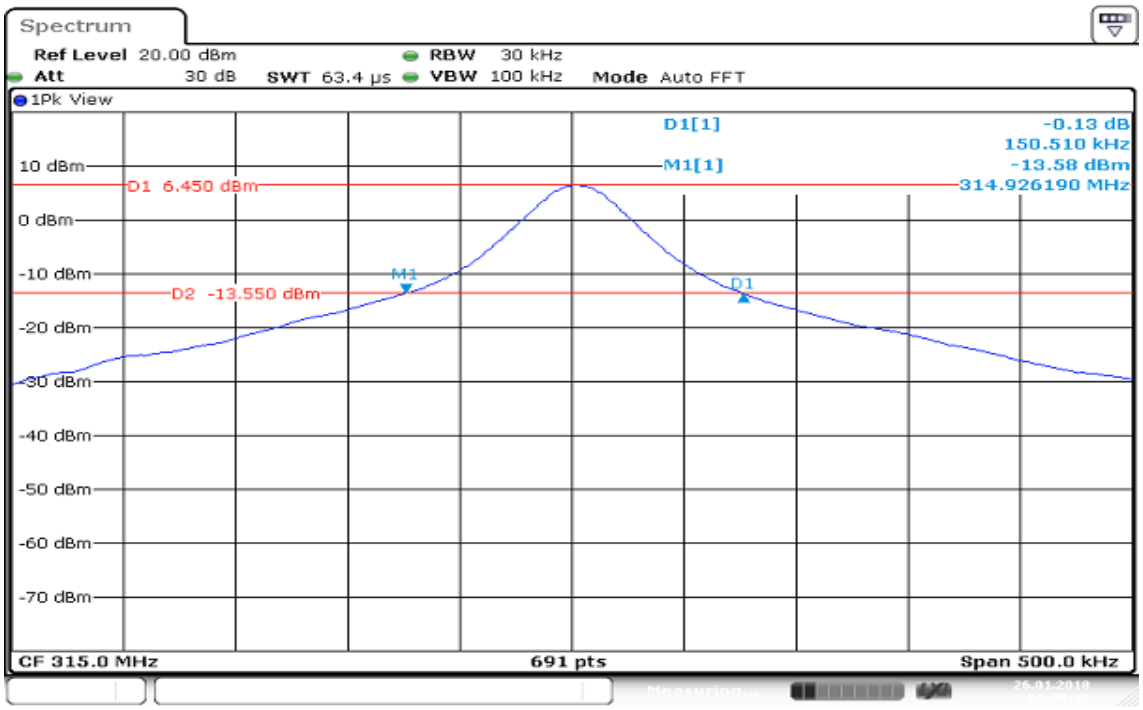


4.2.4 Test Result

Spectrum Bandwidth			
Frequency (MHz)	**99% Occupied BW (KHz)**	**20dB Bandwidth (KHz)**	**20dB Bandwidth Limits (MHz)**
315	252.5325	150.510	0.7875

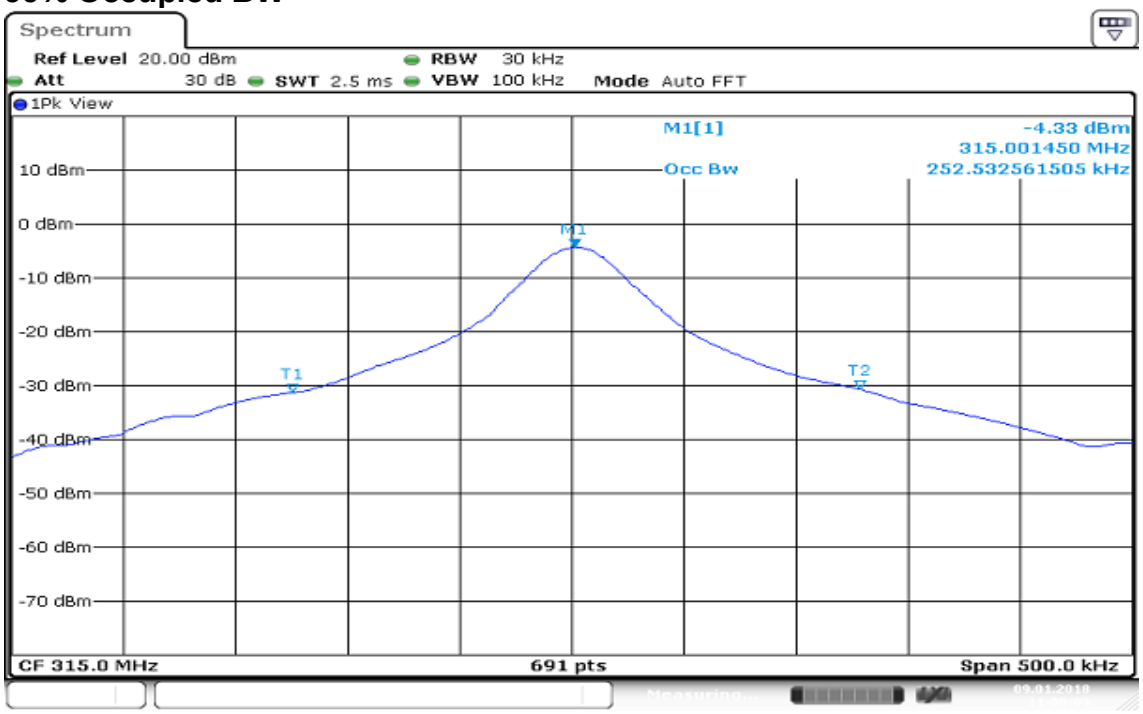
Test Data

20dB Bandwidth



Date: 26.JAN.2018 08:46:46

99% Occupied BW



Date: 9.JAN.2018 11:00:10

4.3 FIELD STRENGTH OF FUNDAMENTAL

4.3.1 Test Limit

According to §15.231(b)

Fundamental frequency (MHz)	Field strength of fundamental (uv/m) at 3m	Field strength of fundamental (dBuv/m) at 3m
40.66-40.70	2,250	67
70-130	1,250	61.9
*130-174	*1,250 to 3,750	61.9-71.5
174-260	3,750	71.5
*260-470	*3,750 to 12,500	71.5-81.9
Above 470	12,500	81.9

REMARK:

1. Linear interpolations

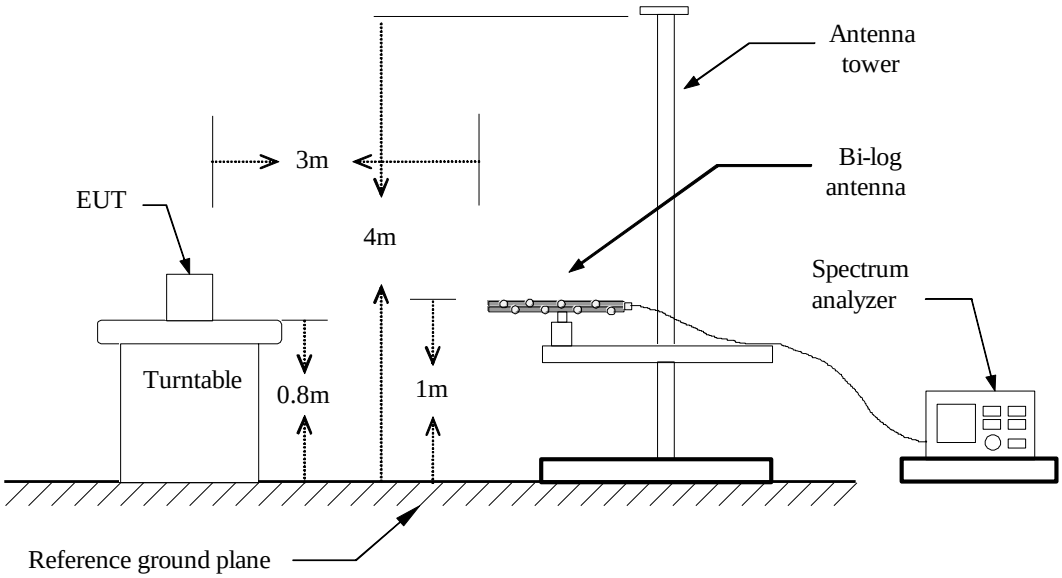
2. Based on the average value of the measured Field strength of fundamental.

4.3.2 Test Procedure

Test method Refer as ANSI 63.10:2013 clause 4.1.4 and clause 6.5

clause 4.1.4	☒ 4.1.4.2.2: Measurement Peak value. ☐ 4.1.4.2.3: Duty cycle ≥ 100%. ☒ 4.1.4.2.4: Measurement Average value.

4.3.3 Test Setup



4.3.4 Test Result

Field Strength					
Frequency (MHz)	**Fundamental (dBuV/m) at 3m**	**Limit (dBuV/m) at 3m**	**Margin (dB)**	**Axis/Pol.**	**Remark**
315.0000	74.79	75.61	-0.82	X/H	AVG

Remark:

1. Fundamental measured method setting on spectrum, RBW=100 kHz, VBW=100kHz and Detector=Peak.

2. Average result = Peak result + Duty factor = 77.31 dBuV/m –2.52= 74.79 dBuV/m

*3. 260MHz ~ 470MHz limit is 41.6667 * (Frequency, MHz) – 7083.3333*

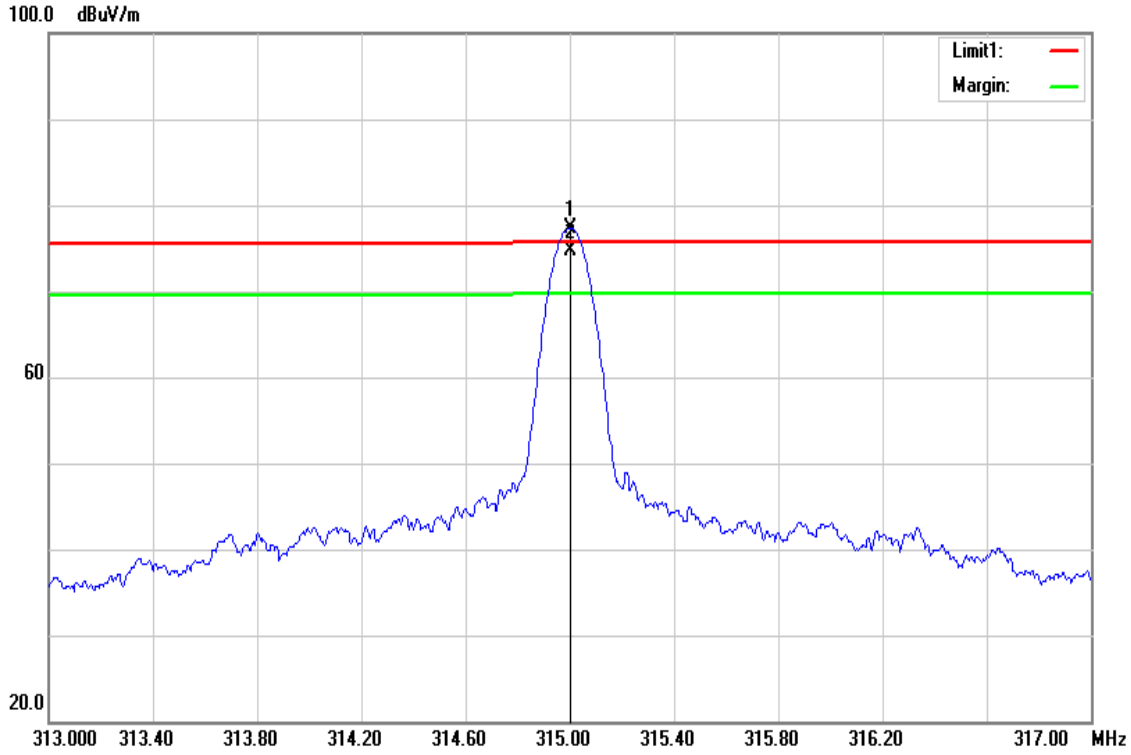
*Limit = 41.6667 * (315.0000 MHz) – 7083.3333*

=6041.64570 (uV/m)

dBuv/m = 20 Log(uV/m) = 20 Log (6041.64570 uV/m)= 75.61dBuV/m

Test Data

Test Mode:	TX-315MHz	Temp/Hum	24(℃)/ 33%RH
Test Item	Fundamental	Test Date	2018/01/10
Axis/Polarize	X-Plane/Hor.	Test Engineer	Jerry Chuang
Detector	Peak & AVG	Test Voltage:	3Vdc



No	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	315.0000	91.05	-13.74	77.31	95.61	-18.3	peak
2	315.0000	95.61	-2.52	74.79	75.61	-0.82	AVG

4.4 RADIATION UNWANTED EMISSION

4.4.1 Test Limit

According to §15.231(e) and §15.209
Unwanted emissions limit follow the table or the FCC Part 15.209, whichever limit permits higher field strength.

According to §15.231(b)

Fundamental frequency (MHz)	Field strength of Spurious emission (uv/m) at 3m	Field strength of Spurious emission (dBuv/m) at 3m
40.66-40.70	225	47
70-130	125	41.9
*130-174	*125-375	41.9-51.5
174-260	375	51.5
*260-470	*375-1250	51.5-61.9
Above 470	1250	61.9

REMARK:
1. Linear interpolations
2. Based on the average value of the measured Field strength of fundamental.

Below 30MHz

Frequency (MHz)	Field Strength				
	(μV/m)	(dBμV/m)	Measurement Distance (meter)	(dBμV/m)	Measurement Distance (meter)
0.009 - 0.490	2400/F(kHz)	48.52 – 13.80	300	128.52–104.84	3
0.490 - 1.705	24000/F(kHz)	33.80 – 22.97	30	73.80– 62.97	3
1.705 – 30.0	30	29.54	30	69.54	3

Above 30MHz

Frequency (MHz)	Field Strength		Measurement Distance (meter)
	(μV/m)	(dBμV/m)	
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

.

4.4.2 Test Procedure

Test method Refer as ANSI 63.10:2013

☒ Unwanted Emission	☒ clause 4.1.4.2.2: Measurement Peak value. ☐ clause 4.1.4.2.3: Duty cycle ≥ 100%. ☒ clause 4.1.4.2.4: Measurement Average value.

☒ Radiated Emission	☒ clause 6.4: below 30 MHz and test distance is 3m. ☒ clause 6.5: below 30 MHz -1 GHz and test distance is 3m. ☒ clause 6.6: Above 30 MHz and test distance is 3m.

1. The EUT is placed on a turntable, which is 0.8m for test below 1GHz and 1.5m for test above 1GHz, above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

   Below 1GHz:

   RBW=100kHz / VBW=300kHz / Sweep=AUTO

   Above 1GHz:

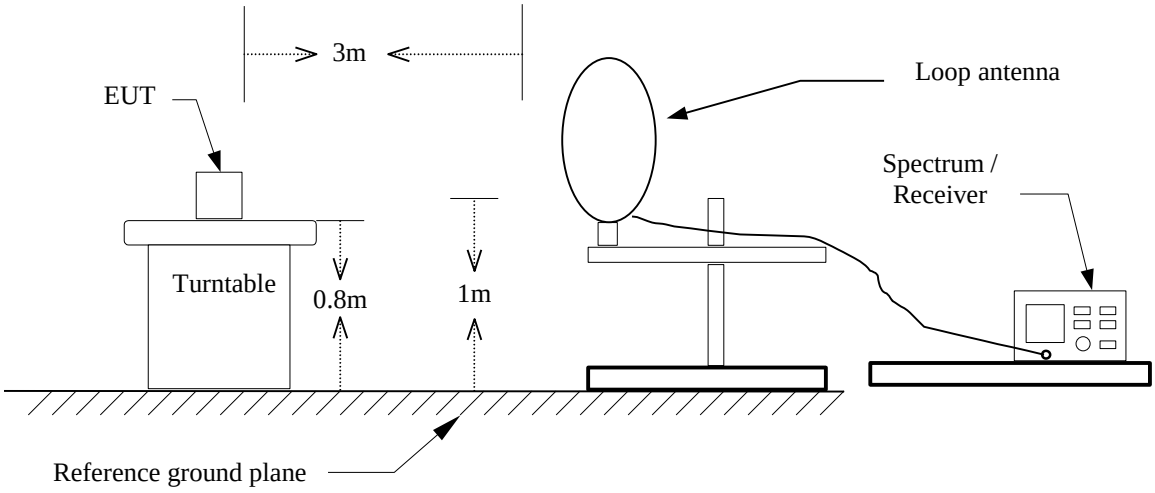
   (a)PEAK: RBW=1MHz / VBW=3MHz / Sweep=AUTO

   (b)AVERAGE: RBW=1MHz,
7. Repeat above procedures until the measurements for all frequencies are complete.

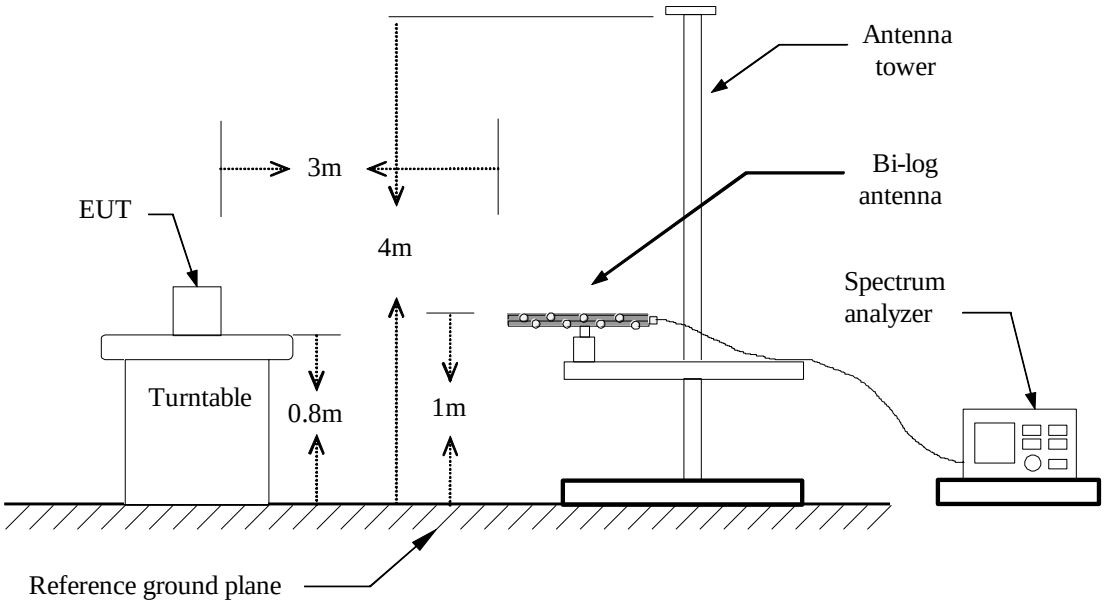
Remark.
1. The EUT has a oscillator operating at 27.6 MHz, harmonic/spurious was verified. And didn't catch any emission at 27.6MHz.
2. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient 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 937606.
3. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

4.4.3 Test Setup

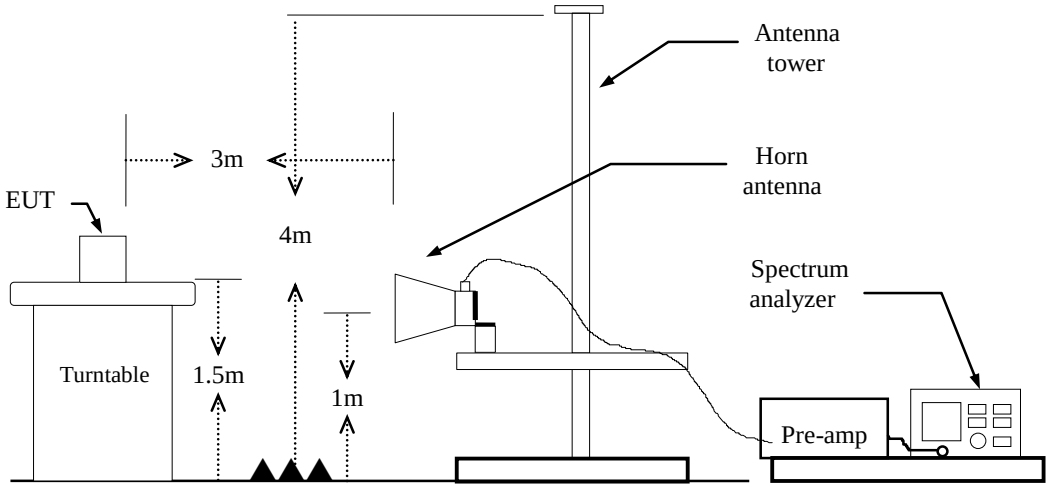
9kHz ~ 30MHz



30MHz ~ 1 GHz



Above 1 GHz



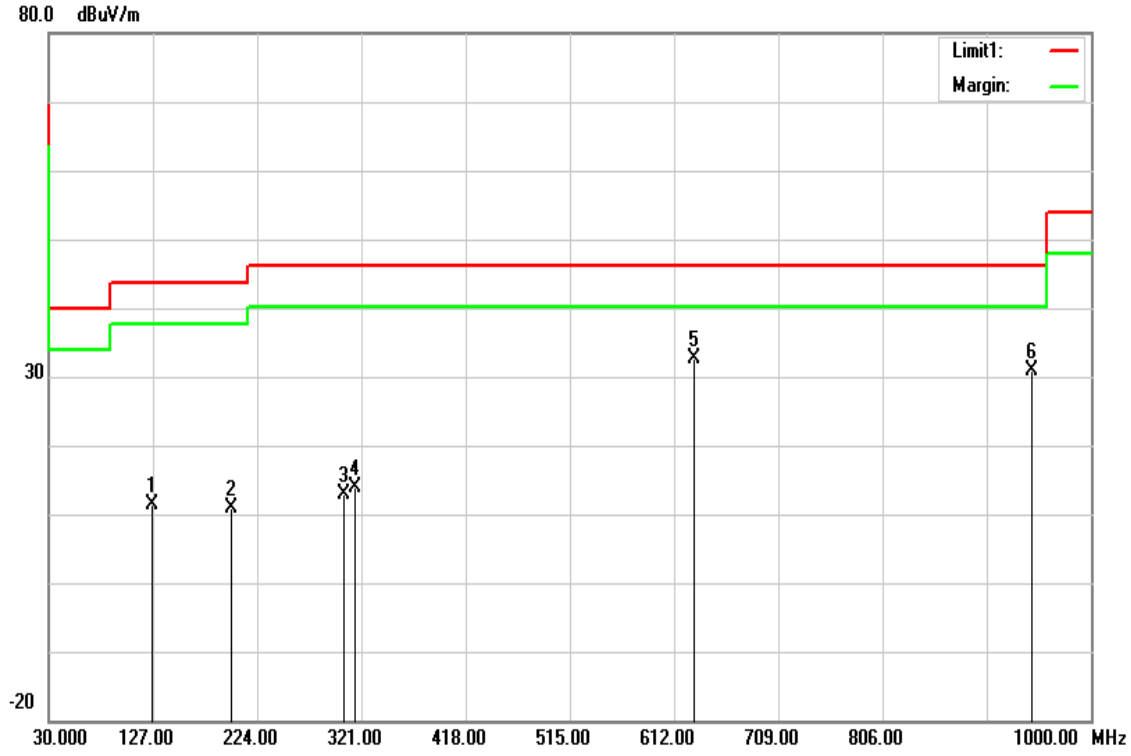
4.4.4 Test Result

Pass.

Test Data (without panic)

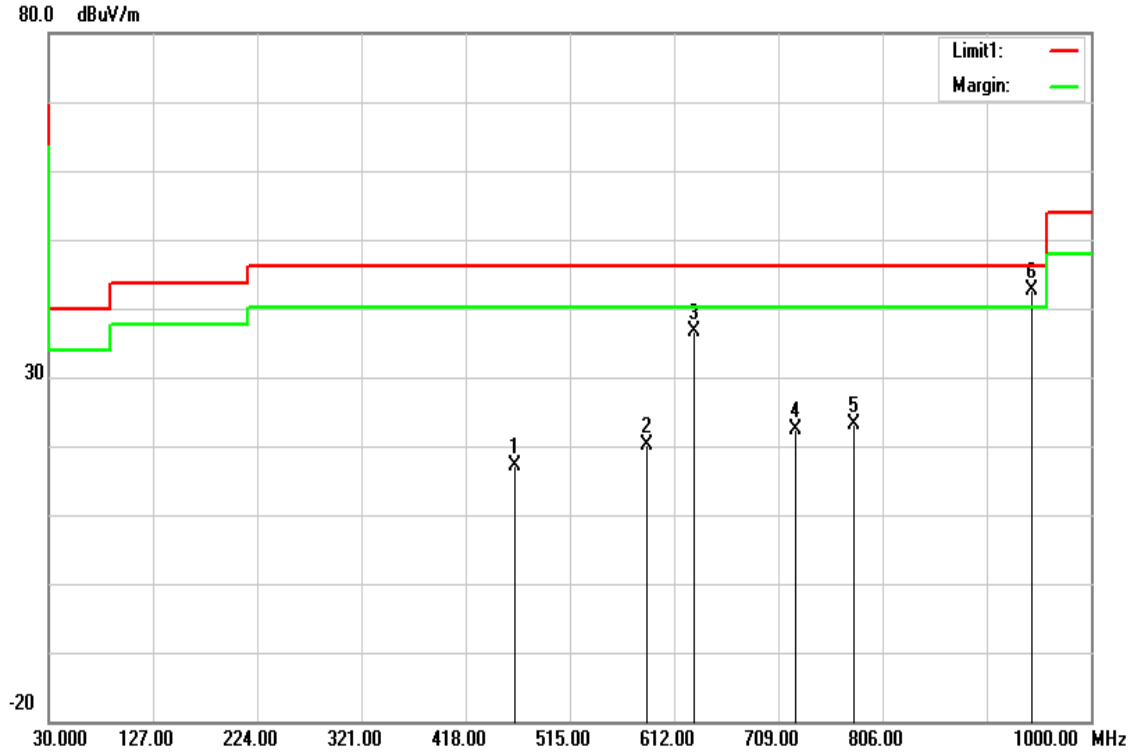
Below 1GHz

Test Mode:	TX-315MHz	Temp/Hum	24(℃)/ 33%RH
Test Item	Below 1GHz	Test Date	2018/01/10
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage:	3Vdc



Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
126.0300	26.63	-15.16	11.47	43.52	-32.05	peak
199.7500	26.17	-15.32	10.85	43.52	-32.67	peak
304.5100	26.88	-13.97	12.91	46.02	-33.11	peak
315.1800	27.69	-13.74	13.95	46.02	-32.07	peak
630.4300	38.78	-6.09	32.69	46.02	-13.33	peak
944.7100	32.08	-1.28	30.80	46.02	-15.22	peak

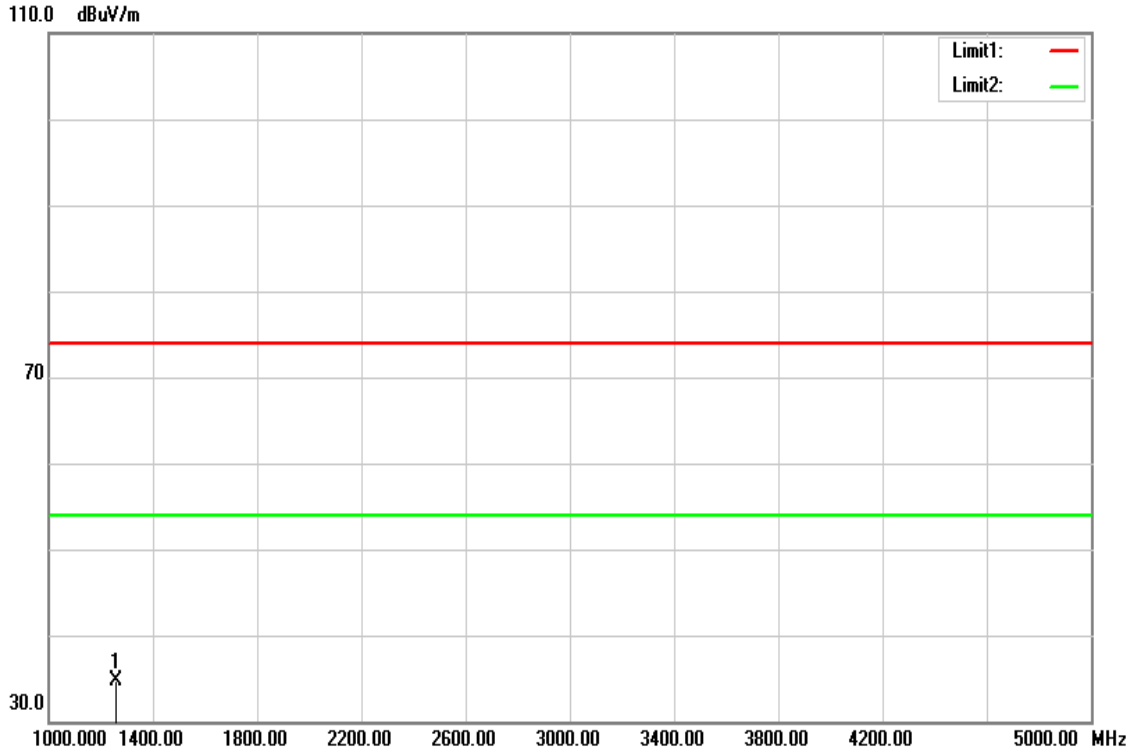
Test Mode:	TX-315MHz	Temp/Hum	24(℃)/ 33%RH
Test Item	Below 1GHz	Test Date	2018/01/10
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage:	3Vdc



Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
463.5900	26.37	-9.30	17.07	46.02	-28.95	peak
586.7800	27.24	-7.09	20.15	46.02	-25.87	peak
630.4300	42.82	-6.09	36.73	46.02	-9.29	peak
725.4900	26.96	-4.58	22.38	46.02	-23.64	peak
779.8100	26.78	-3.74	23.04	46.02	-22.98	peak
944.7100	43.99	-1.28	42.71	46.02	-3.31	QP

Above 1GHz

Test Mode:	TX-315MHz	Temp/Hum	24(℃)/ 33%RH
Test Item	Above 1GHz	Test Date	2018/01/10
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage:	3Vdc

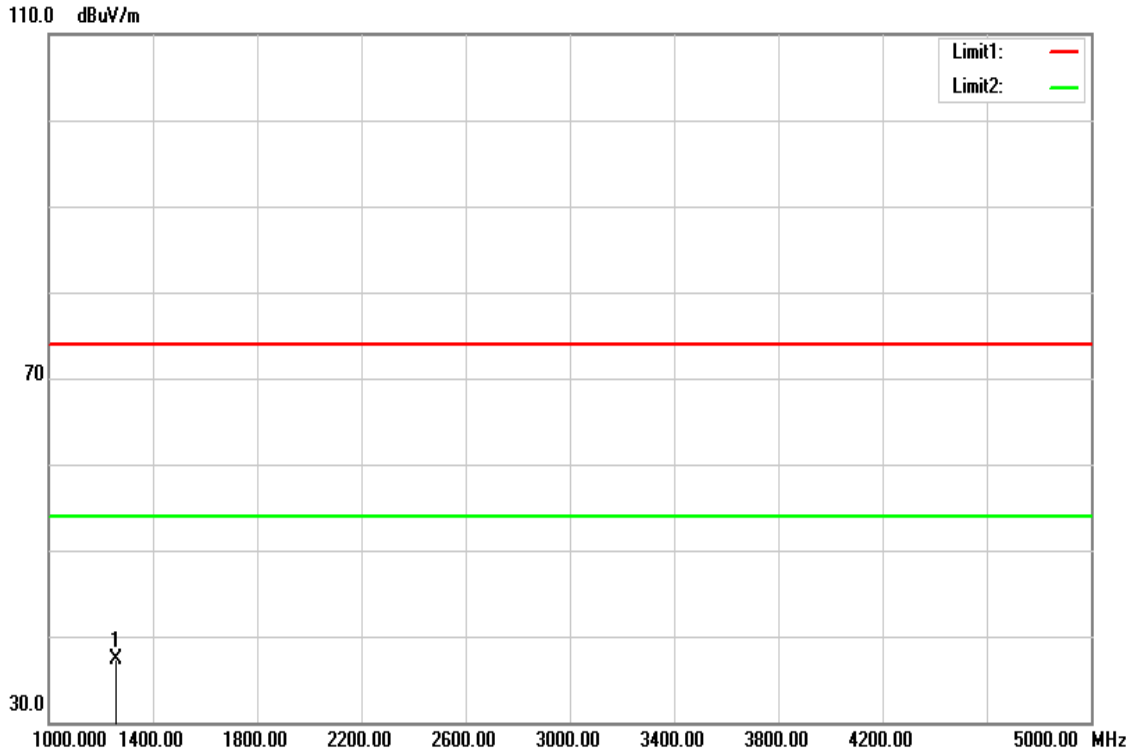


Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1260.000	43.64	-8.85	34.79	74.00	-39.21	peak
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

Test Mode:	TX-315MHz	Temp/Hum	24(℃)/ 33%RH
Test Item	Above 1GHz	Test Date	2018/01/10
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage:	3Vdc



Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1260.000	46.05	-8.85	37.20	74.00	-36.80	peak
N/A						

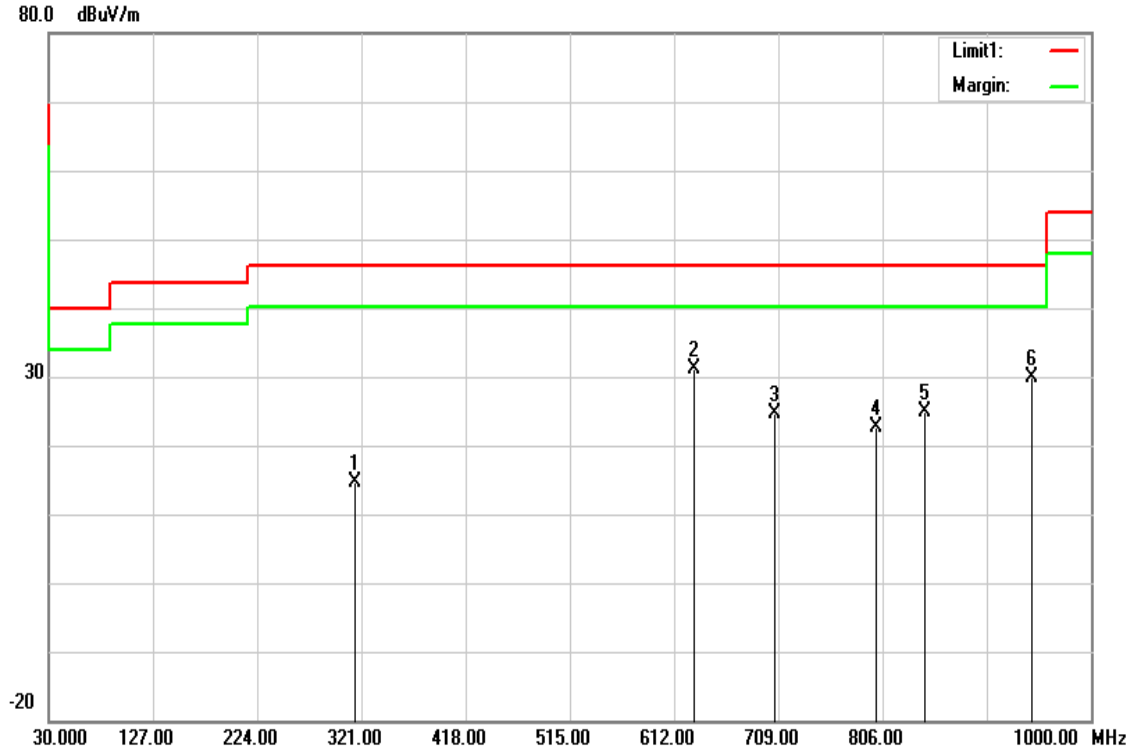
Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

Test Data (with panic)

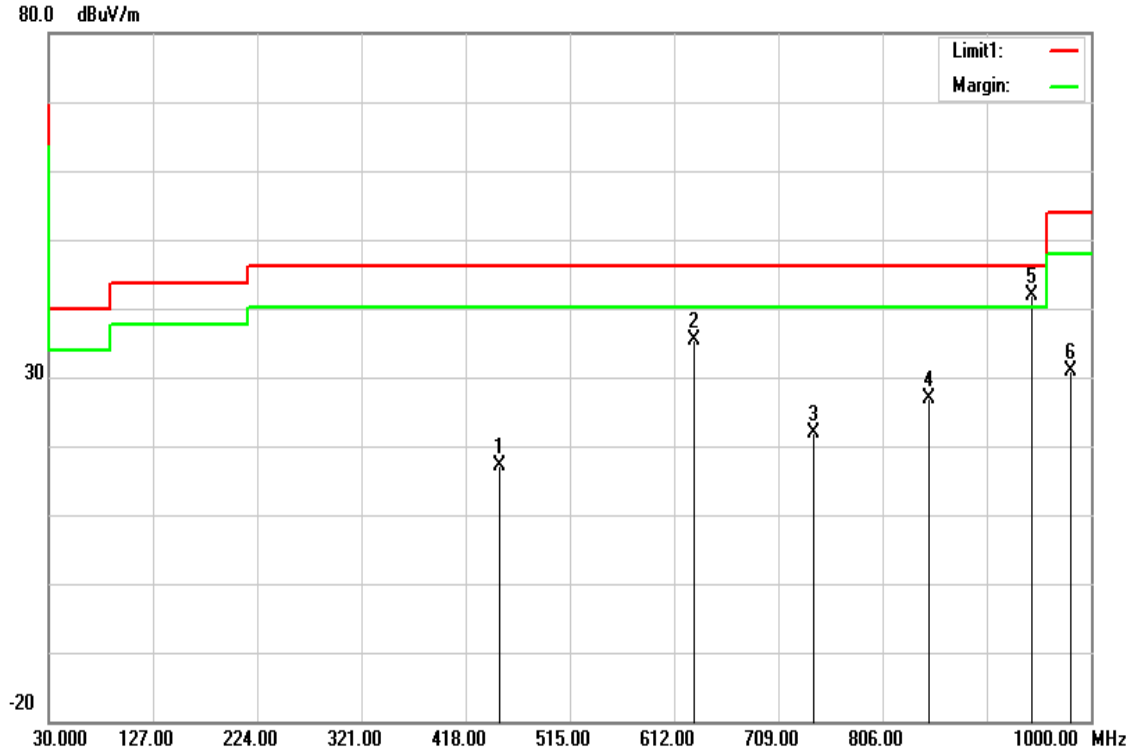
Below 1GHz

Test Mode:	TX-315MHz	Temp/Hum	22(℃)/ 34%RH
Test Item	Below 1GHz	Test Date	2018/04/26
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage:	3Vdc



Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
315.1800	28.45	-13.74	14.71	46.02	-31.31	peak
630.4300	37.14	-6.09	31.05	46.02	-14.97	peak
705.1200	29.49	-4.83	24.66	46.02	-21.36	peak
800.1800	25.97	-3.38	22.59	46.02	-23.43	peak
845.7700	27.90	-2.91	24.99	46.02	-21.03	peak
944.7100	31.24	-1.28	29.96	46.02	-16.06	peak

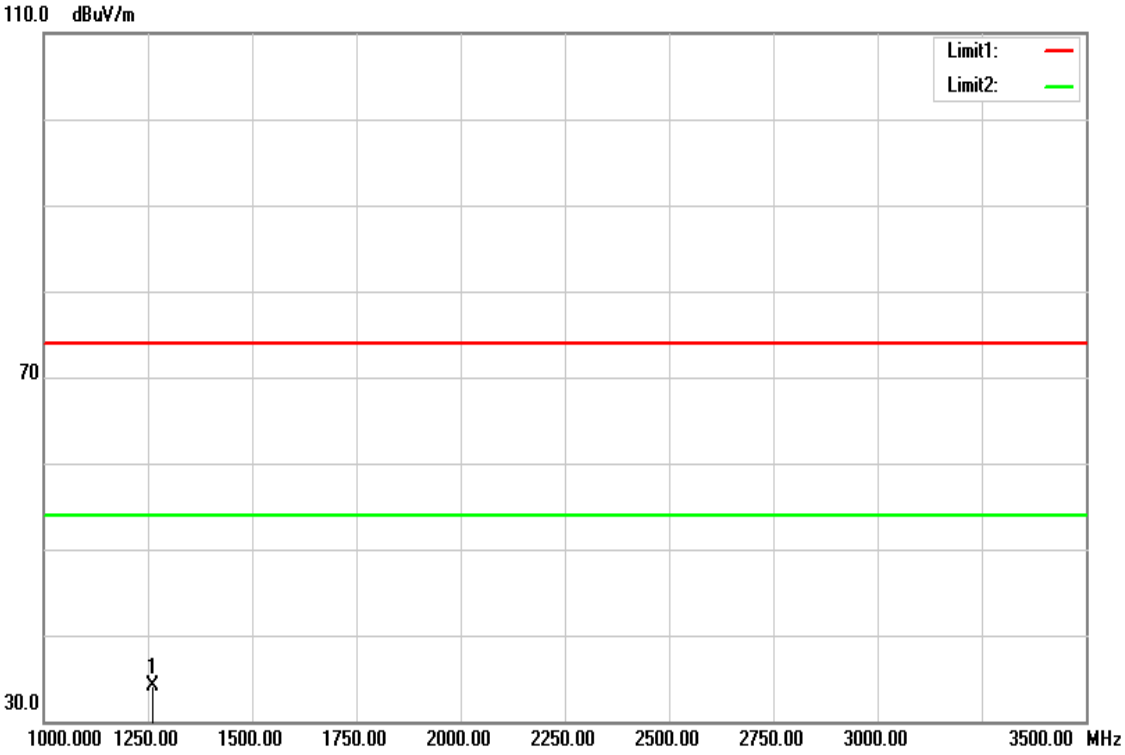
Test Mode:	TX-315MHz	Temp/Hum	22(℃)/ 34%RH
Test Item	Below 1GHz	Test Date	2018/04/26
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage:	3Vdc



Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
449.0400	26.64	-9.63	17.01	46.02	-29.01	peak
630.4300	41.48	-6.09	35.39	46.02	-10.63	peak
741.9800	26.30	-4.38	21.92	46.02	-24.10	peak
848.6800	29.71	-2.87	26.84	46.02	-19.18	peak
944.7100	43.24	-1.28	41.96	46.02	-4.06	QP
981.5700	31.64	-0.85	30.79	54.00	-23.21	peak

Above 1GHz

Test Mode:	TX-315MHz	Temp/Hum	22(℃)/ 34%RH
Test Item	Above 1GHz	Test Date	2018/04/26
Polarize	Vertical	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage:	3Vdc

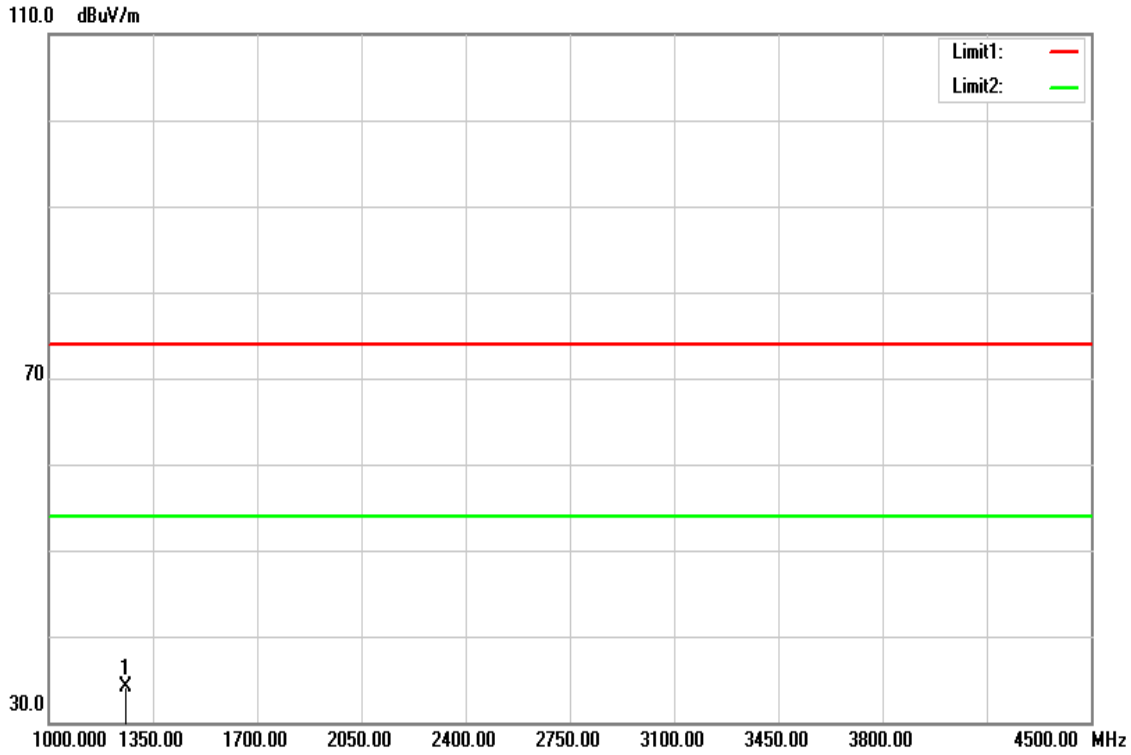


Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1260.000	42.94	-8.85	34.09	74.00	-39.91	peak
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

Test Mode:	TX-315MHz	Temp/Hum	22(℃)/ 34%RH
Test Item	Above 1GHz	Test Date	2018/04/26
Polarize	Horizontal	Test Engineer	Jerry Chuang
Detector	Peak	Test Voltage:	3Vdc



Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1260.000	42.94	-8.85	34.09	74.00	-39.91	peak
N/A						

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*

4.5 OPERATION RESTRICTION

4.5.1 Test Limit

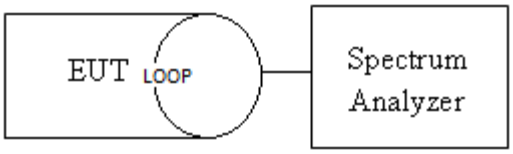
15.231(a)(1), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

4.5.2 Test Procedure

Test method Refer as ANSI 63.10:2013 clause 7.4

The Loop antenna connected to the spectrum analyzer, was touching to the transmitter antenna. Set the RBW=1MHz, VBW ≥ 3 x RBW, Detector = Peak, Trace mode = Max hold, Sweep = 200s.Measure

4.5.3 Test Setup



4.5.4 Test Result

Dwell Time		
Operation condition	**Burst Duration**	**Limits**
Automatically Operated	376.8 ms	5 sec

Test Data

Operation Restriction