

FCC Radio Test Report

FCC ID: 2AG7CBELL5

This report concerns: Original Grant

Project No. : 2010H035
Equipment : Wireless DoorBell
Brand Name : N/A
Test Model : BELL 5S
Series Model : BELL 5X, BELL 8S, EOD1-1003-SIL, EOD1-2003-SIL, WIFICDP10GY
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Manufacturer : Hangzhou Meari Technology Co., Ltd.
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Address : No. 91 Chutian Road, Xixing Street, Binjiang District, Hangzhou, Zhejiang, China
Date of Receipt : Nov. 03, 2020
Date of Test : Nov. 03, 2020~Dec. 28, 2020
Issued Date : Jan. 04, 2021
Report Version : R00
Test Sample : Engineering Sample No.: SH2020110266, SH2020110266-4, SH2020110266-6
Standard(s) : FCC Part15, Subpart C(15.249)
 ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

maker Qi

Prepared by : Maker Qi

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Certificate # 5123. 03

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

Table of Contents	Page
REPORT ISSUED HISTORY	5
1 . SUMMARY OF TEST RESULTS	6
1.1 TEST FACILITY	6
1.2 MEASUREMENT UNCERTAINTY	7
1.3 TEST ENVIRONMENT CONDITIONS	7
2 . GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF EUT	8
2.2 DESCRIPTION OF TEST MODES	9
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	10
2.4 SUPPORT UNITS	10
3 . CONDUCTED EMISSIONS TEST	11
3.1 LIMIT	11
3.2 TEST PROCEDURE	11
3.3 DEVIATION FROM TEST STANDARD	11
3.4 TEST SETUP	12
3.5 EUT OPERATION CONDITIONS	12
3.6 TEST RESULTS	12
4 . EMC EMISSION TEST	13
4.1 RADIATED EMISSION MEASUREMENT	13
4.1.1 RADIATED EMISSION LIMITS	13
4.1.2 TESTPROCEDURE	15
4.1.3 DEVIATIONFROMTESTSTANDARD	15
4.1.4 TESTSETUP	16
4.1.5 EUT OPERATING CONDITIONS	17
4.1.6 TEST RESULTS (30 TO 1000 MHZ)	17
4.1.7 TEST RESULTS(ABOVE1000 MHZ)	17
5 . BANDWIDTH TEST	18
5.1 TEST PROCEDURE	18
5.2 DEVIATION FROM STANDARD	18
5.3 TEST SETUP	18
5.4 EUT OPERATION CONDITIONS	18
5.5 TEST RESULTS	18
6 . MEASUREMENT INSTRUMENTS LIST	19
7 . EUT TEST PHOTO	21

Table of Contents**Page**

APPENDIX A - CONDUCTED EMISSIONS	24
APPENDIX B - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	27
APPENDIX C- RADIATED EMISSION- ABOVE 1000 MHZ	32
APPENDIX D - BANDWIDTH	35

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Jan. 04, 2021

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart C (15.249)				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	Conducted Emission	APPENDIX A	PASS	-----
15.209 15.249	Radiated Spurious Emission	APPENDIX B APPENDIX C	PASS	-----
-	Bandwidth	APPENDIX D	PASS	-----

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210,China

BTL's Test Firm Registration Number for FCC: 476765

BTL's Designation Number for FCC: CN1241

1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) $k=1.96$ or $k=2$ (which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$.

A. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
SH-CB01	CISPR	9 KHz~30 MHz	V	3.79
		9 KHz~30 MHz	H	3.57
		30 MHz~200 MHz	V	4.04
		30 MHz~200 MHz	H	3.76
		200 MHz~1,000 MHz	V	4.24
		200 MHz~1,000 MHz	H	3.84
		1 GHz~18 GHz	V	4.46
		1 GHz~18 GHz	H	4.40
		18 GHz~40 GHz	V	3.95
		18 GHz~40 GHz	H	3.95

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Conducted Emission	23°C	55%	AC 120V/60Hz	Joven Xiong
Radiated Emission -30 MHz to 1GHz	24°C	58%	AC 120V/60Hz	Forest Li
Radiated Emission -Above 1000 MHz	24°C	58%	AC 120V/60Hz	Forest Li
Bandwidth	22°C	48%	AC 120V/60Hz	Vince Zong

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless DoorBell
Brand Name	N/A
Test Model	BELL 5S
Series Model	BELL 5X, BELL 8S, EOD1-1003-SIL, EOD1-2003-SIL, WIFICDP10GY
Model Difference(s)	The series models BELL 5 and BELL 8 are just slightly different in appearance; Other models are identical except for model name.
Software Version	Smart life
Hardware Version	PCB-BELL5S-S1MB_GC2063 REV1_0
Power Source	DC voltage supplied from AC/DC adapter. #1 Brand/Mode:STZY/ TPA-46B050100UU #2 Brand/Mode:GPO/ GTA92-0501000US AC/DC voltage supplied from AC/DC source. #3 AC voltage supplied from AC/AC source #4 DC voltage supplied from AC/DC source
Power Rating	#1 I/P: 100V-240V ~ 50Hz/60Hz 0.2A O/P:5.0V --- 1000mA. #2 I/P: 100V-240V ~ 50Hz/60Hz 0.3A O/P:USB-A 5.0V --- 1.0A, 5.0W #3 I/P: 100V-240V ~ 50Hz/60Hz O/P: AC 12-24V #4 I/P: 100V-240V ~ 50Hz/60Hz O/P: DC 12-24V
Operation Frequency	915 MHz
Modulation Type	OOK
Field Strength	84.53dBuV/m

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- Channel List:

Channel	Channel Frequency (MHz)
01	915

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	FPC	N/A	2	N/A

Note:

The antenna gain is provided by the manufacturer.

2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX_915

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

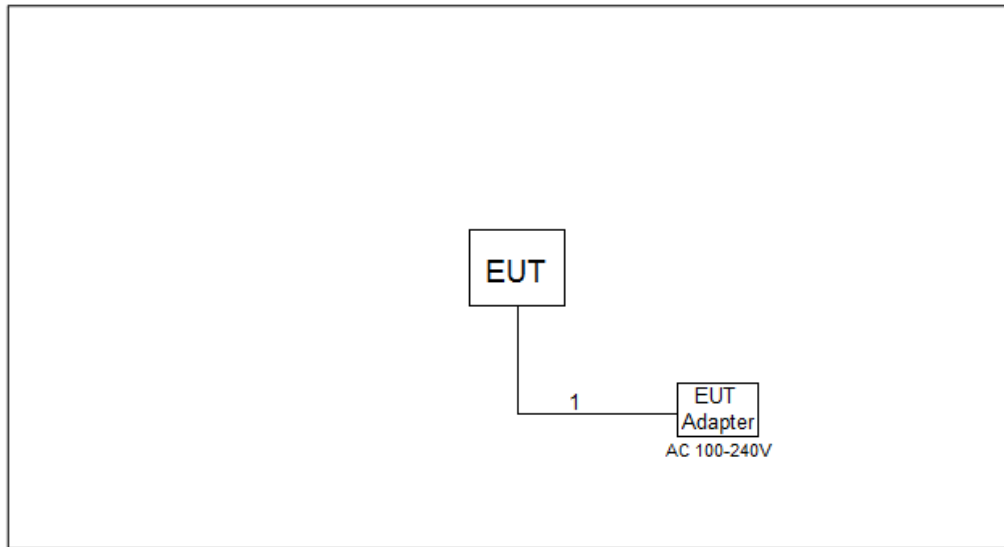
Conducted emissions test	
Final Test Mode:	Description
Mode 5	TX_915

Radiated emissions test - Below 1GHz	
Final Test Mode:	Description
Mode 1	TX_915

Radiated emissions test- Above 1GHz	
Final Test Mode:	Description
Mode 1	TX_915

Conducted test	
Final Test Mode:	Description
Mode 1	TX_915

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1m

3. CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

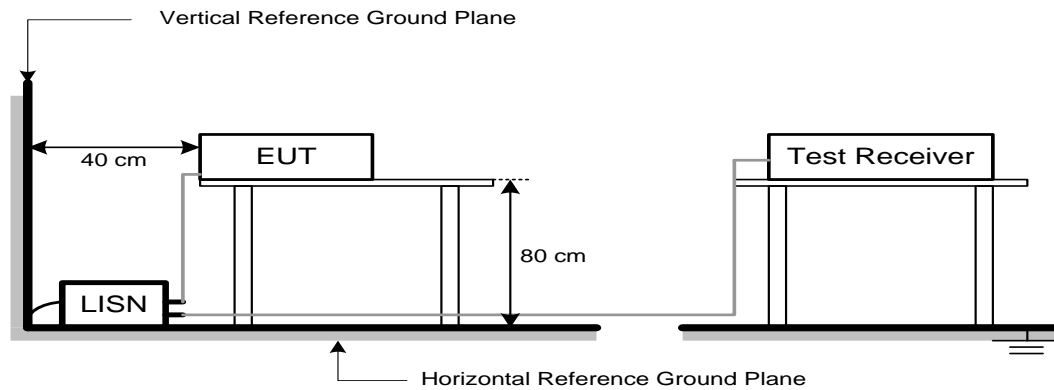
3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. EMC EMISSION TEST

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 RADIATED EMISSION LIMITS (FCC 15.209 and 15.249)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Harmonic emissions limits comply with below 54dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

Fundamental Frequency	Field Strength of Fundamental (micorvolts/meter)	Field Strength of Harnibucs (micorvolts/meter)
902-928 MHz	50	500

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

FREQUENCY (MHz)	(dBuV/m) (at 3m)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

DWELL TIME OF PERIODIC OPERATION MEASUREMENT

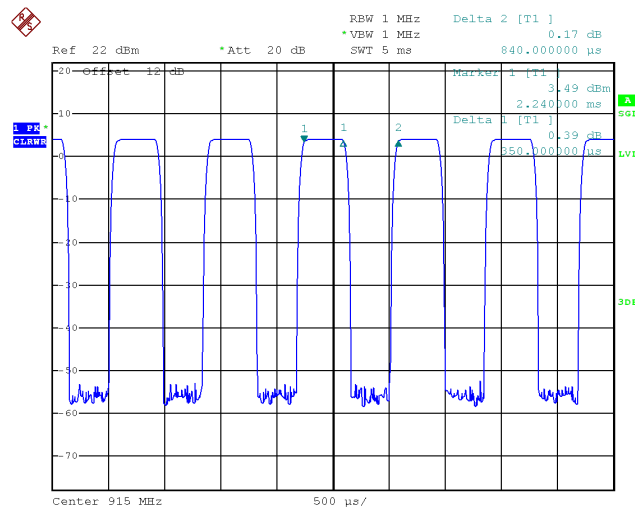
Duty Cycle = On Time/Total Time

T_{ON} : 0.350ms

T_{Total} : 0.840ms

Duty cycle= $0.350/0.840= 41.7\%$

Average Reading = Peak value + $20\log(\text{Duty cycle})$, $AV=\text{Peak}-7.60$



Date: 25.NOV.2020 14:58:44

4.1.2 TESTPROCEDURE

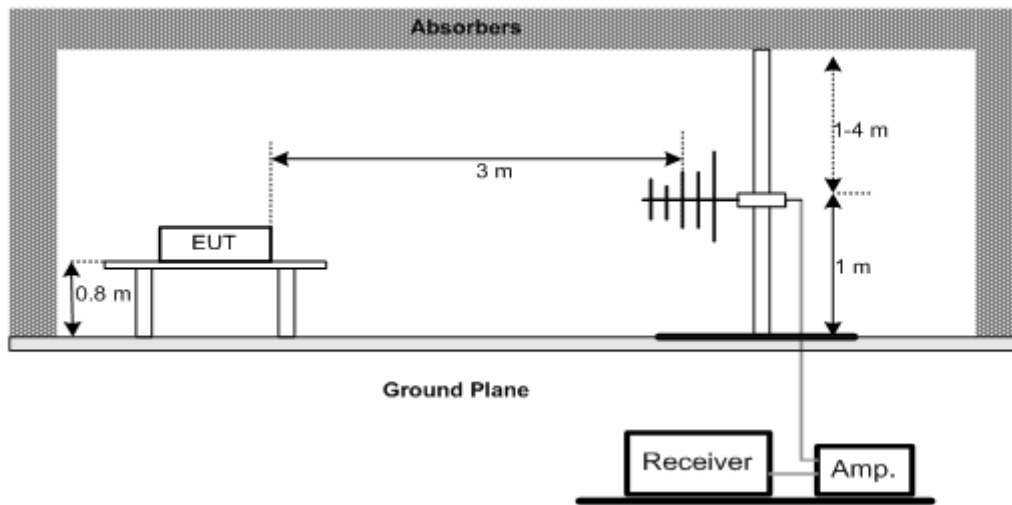
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m,the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
(below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATIONFROMTESTSTANDARD

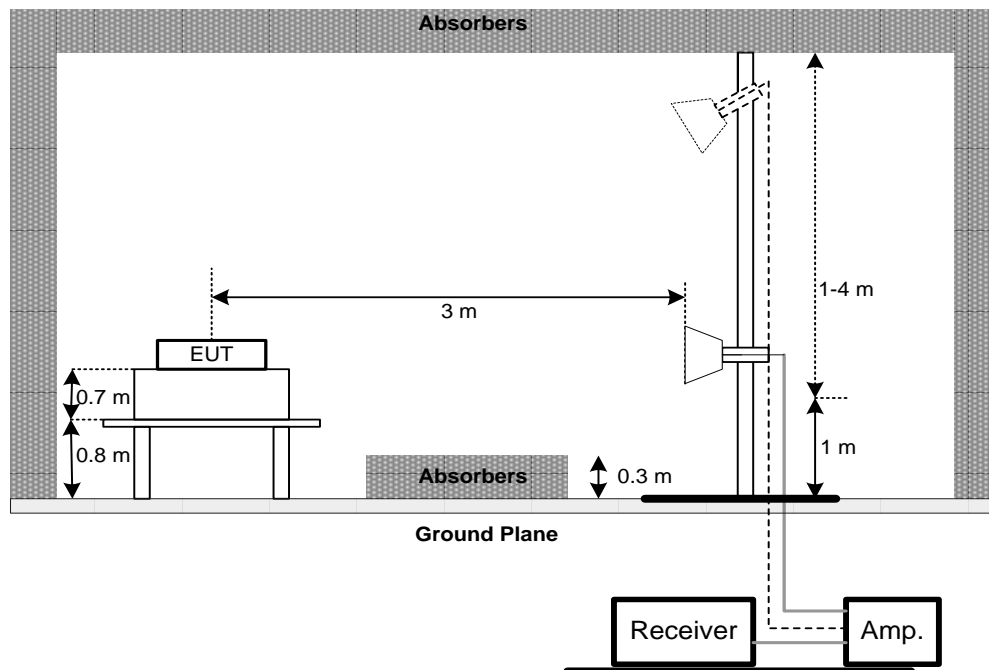
No deviation

4.1.4 TESTSETUP

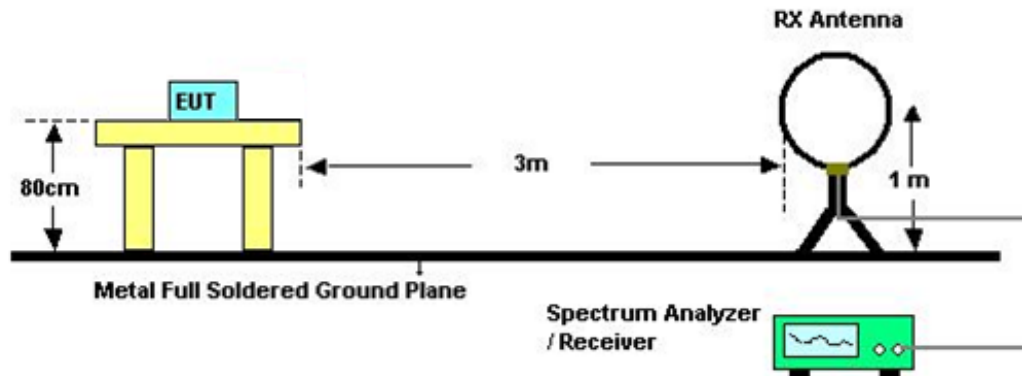
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For radiated emissions below 30MHz



4.1.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.1.6 TEST RESULTS (30 TO 1000 MHZ)

Please refer to the Appendix B.

4.1.7 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Appendix C.

Remark:

- (1) EUT Orthogonal Axis:
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (2) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

5. BANDWIDTH TEST

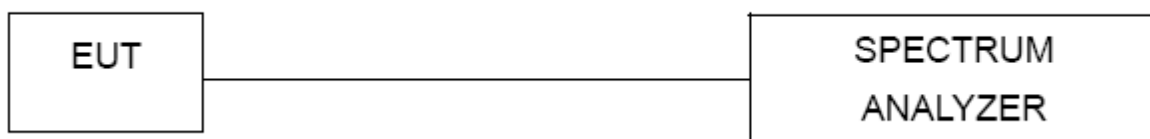
5.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 3kHz, VBW=3kHz, Sweep time = Auto.

5.2 DEVIATION FROM STANDARD

No deviation.

5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.5 TEST RESULTS

Please refer to the Appendix D.

6. MEASUREMENT INSTRUMENTS LIST

Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 21, 2021
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Aug. 23, 2021
3	Test Cable	emci	EMCRG400-BM-N M-10000	170628	Jul. 15, 2021
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2021
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 21, 2021
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 21, 2021
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	719	Apr. 02, 2021
2	Pre-Amplifier	emci	EMC9135	980400	Mar. 21, 2021
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2021
4	Test Cable	emci	EMC104-SM-SM-7000	170330	Apr. 13, 2021
5	Test Cable	emci	EMC104-SM-SM-1000	170331	Apr. 13, 2021
6	Test Cable	emci	EMC104-SM-NM-3500	170621	Apr. 13, 2021
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	9120D	00206960	Apr. 02, 2021
2	Pre-Amplifier	emci	EMC012645SE	980421	May. 11, 2021
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Mar. 21, 2021
4	Test Cable	emci	EMC104-SM-SM-7000	170330	Apr. 13, 2021
5	Test Cable	emci	EMC104-SM-SM-1000	170331	Apr. 13, 2021
6	Test Cable	emci	EMC104-SM-NM-3500	170621	Apr. 13, 2021
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	MXE EMI Receiver	Keysight	N9038A	MY57150106	May. 06, 2021
9	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	Jul. 20, 2021
10	Pre-Amplifier	emci	EMC184045SE	980409	Mar. 21, 2021
11	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 21, 2021
12	Test Cable	emci	EMC102-KM-KM-800	170654	Apr. 13, 2021
13	Test Cable	emci	Super Reliable-40G-SS11-7000	W0030860001	Apr. 13, 2021
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	May. 06, 2021

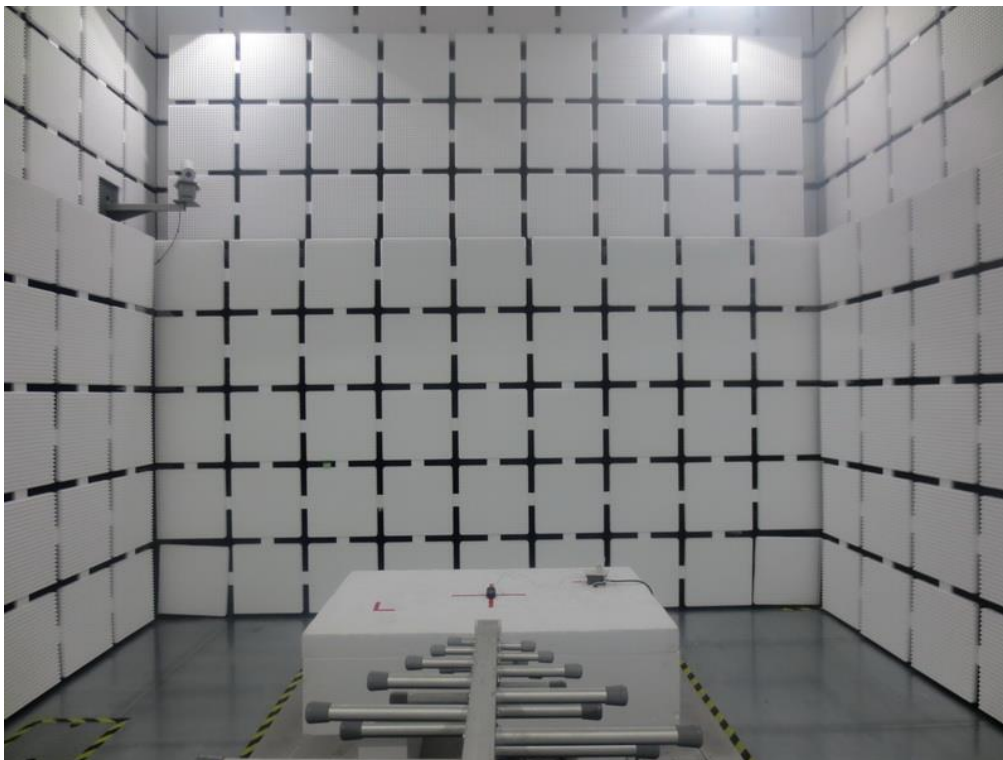
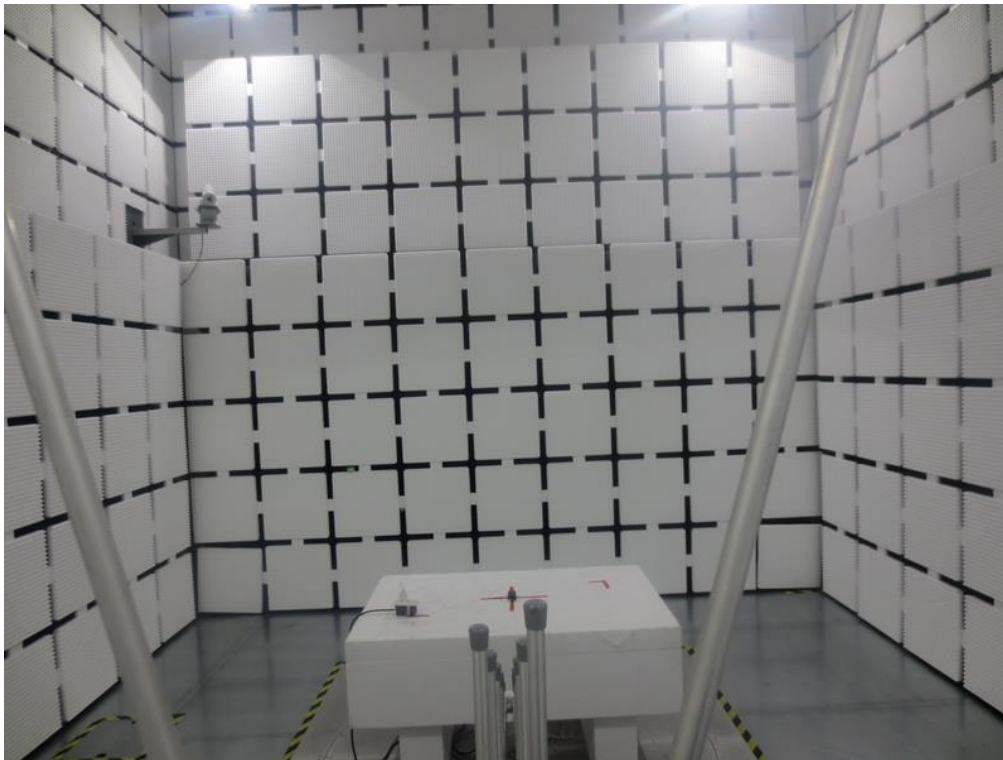
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

7. EUT TEST PHOTO

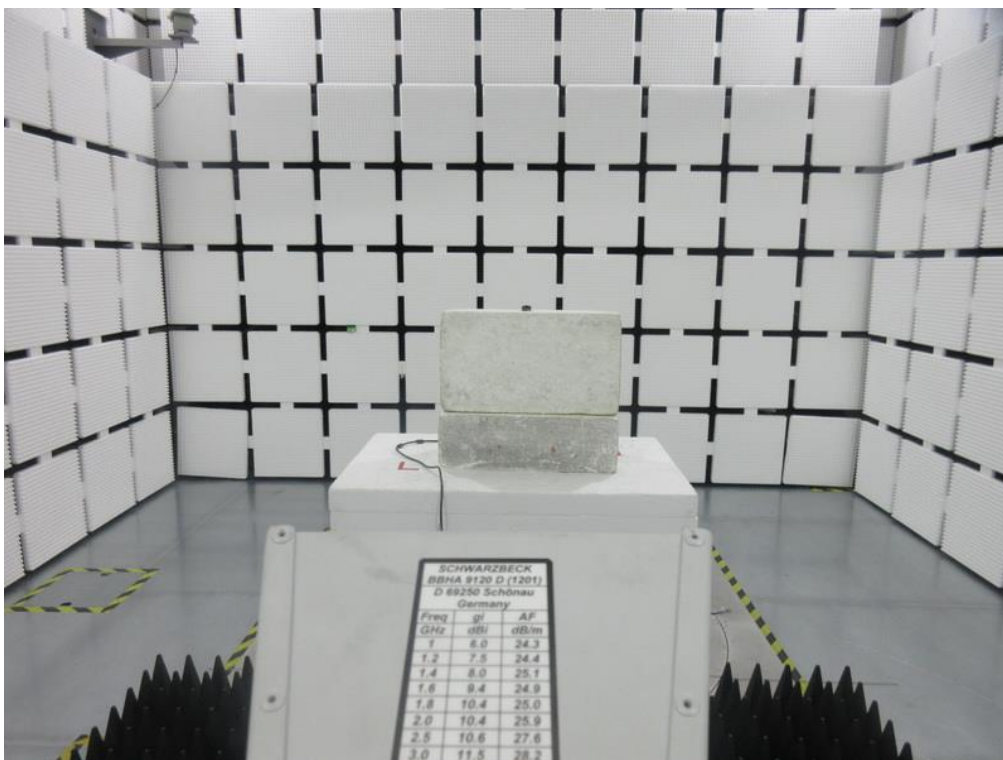
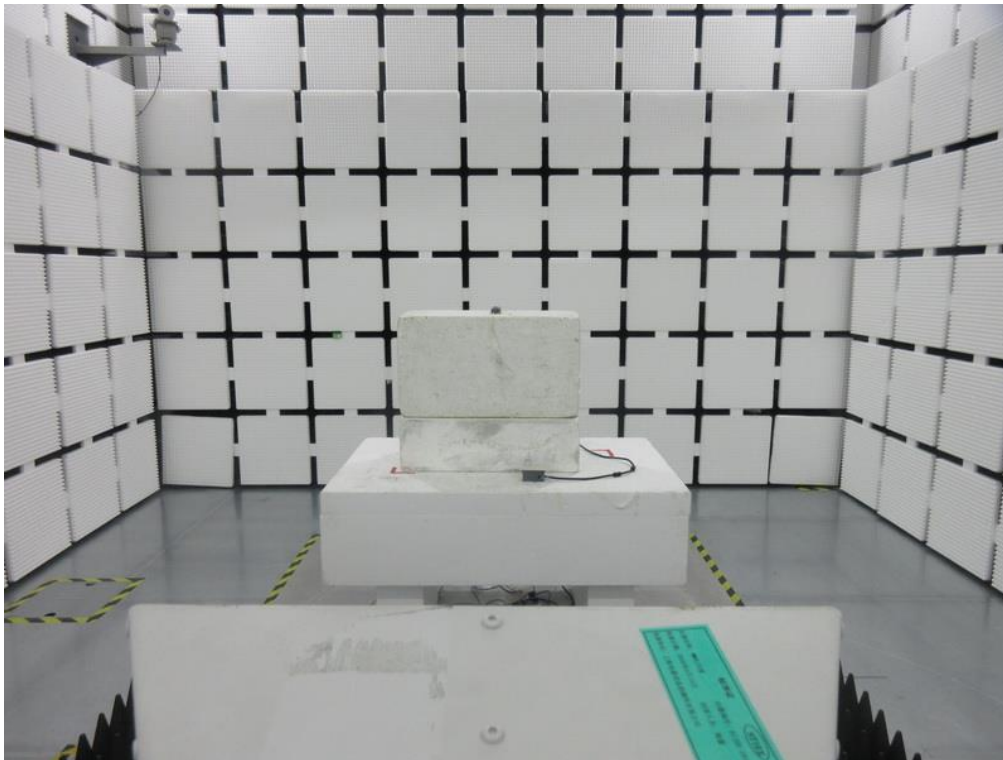
Conducted Emissions Test Photos



Radiated Emissions Test Photos**30 MHz to 1 GHz**

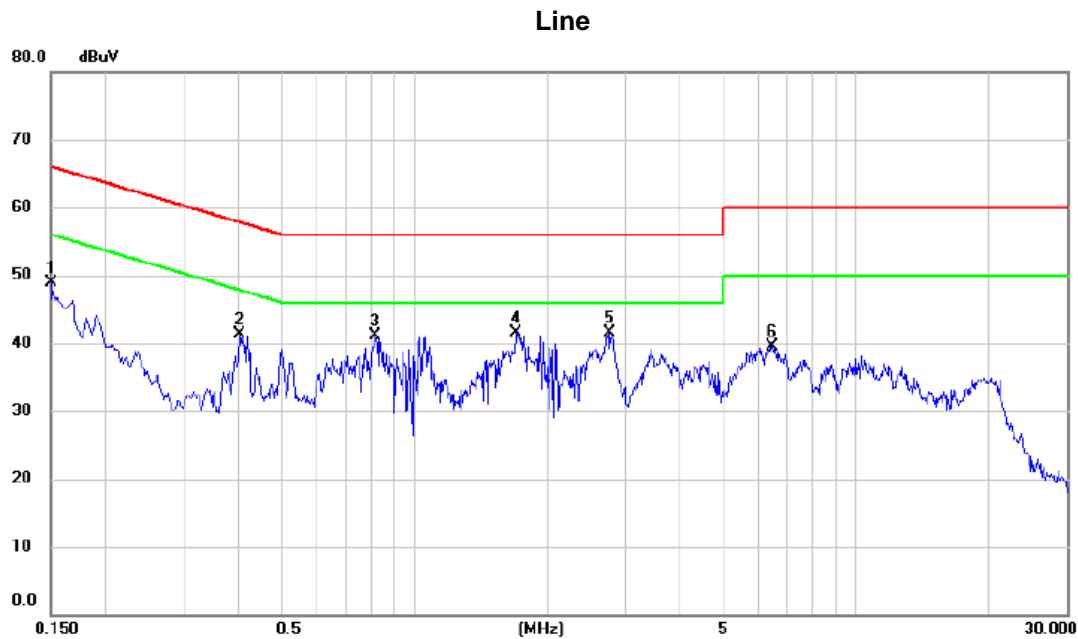
Radiated Emissions Test Photos

Above 1 GHz



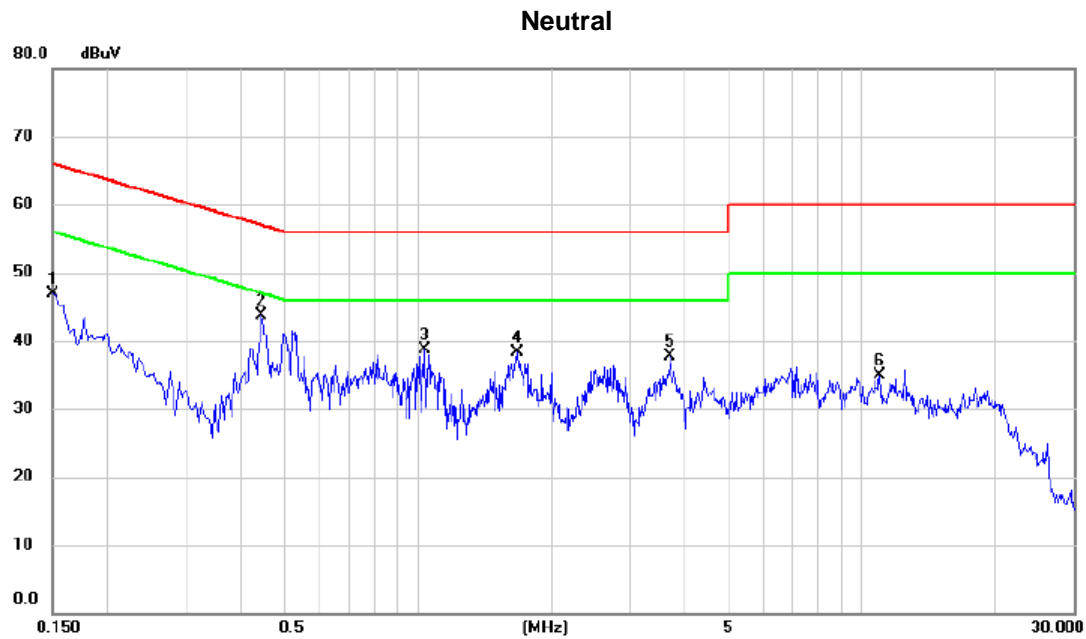
APPENDIX A - CONDUCTED EMISSIONS

Test Mode:	TX_915
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	39.19	9.71	48.90	66.00	-17.10	peak	
2		0.4020	31.55	9.78	41.33	57.81	-16.48	peak	
3		0.8160	31.28	9.82	41.10	56.00	-14.90	peak	
4	*	1.6934	31.67	9.88	41.55	56.00	-14.45	peak	
5		2.7600	31.53	9.95	41.48	56.00	-14.52	peak	
6		6.4590	29.52	10.08	39.60	60.00	-20.40	peak	

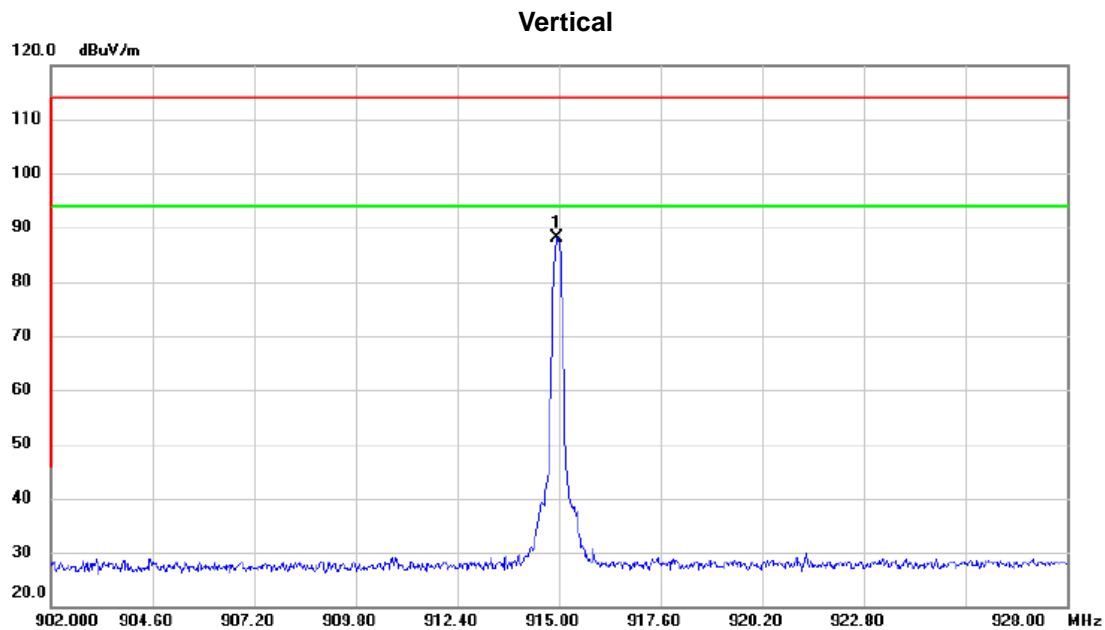
Test Mode:	TX_915
------------	--------



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
1		0.1500	37.25	9.68	46.93	66.00	-19.07	peak	
2	*	0.4444	34.03	9.76	43.79	56.98	-13.19	peak	
3		1.0363	28.91	9.82	38.73	56.00	-17.27	peak	
4		1.6800	28.37	9.86	38.23	56.00	-17.77	peak	
5		3.7050	27.72	9.98	37.70	56.00	-18.30	peak	
6		10.9995	24.51	10.32	34.83	60.00	-25.17	peak	

APPENDIX B - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode: TX_915



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	914.9610	93.86	-5.66	88.20	114.00	-25.80	peak	

Remark:

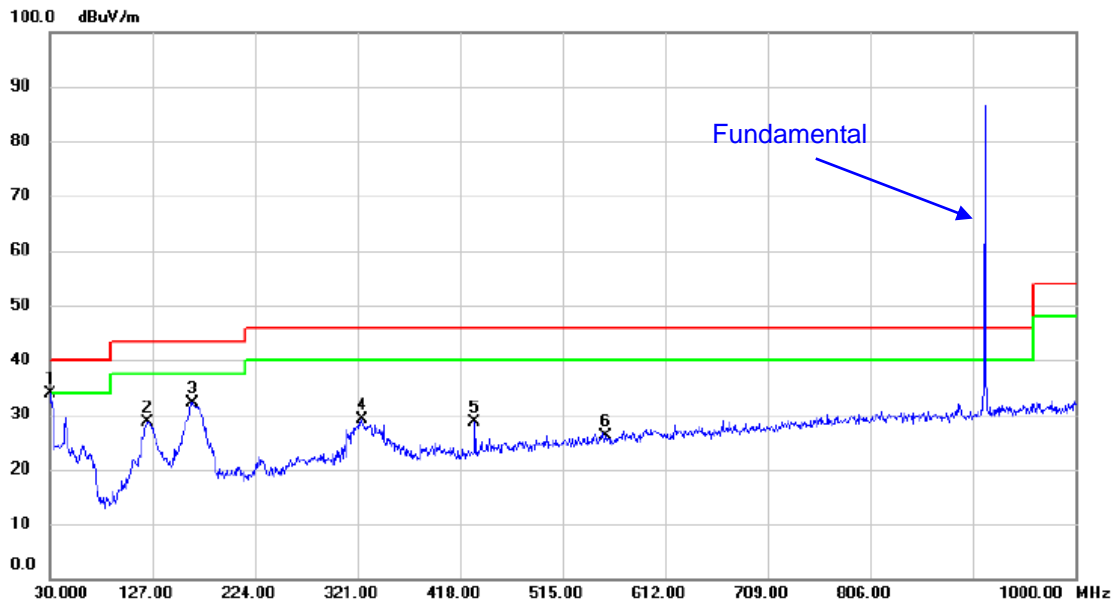
(1) The average of fundamental frequency is:

Average Reading = Peak value + 20log(Duty cycle) , AV=Peak-7.6

Frequency (MHz)	Peak value (dBuV/m)	AV value (dBuV/m)	AV Limit (dBuV/m)	Result
915	88.2	80.6	94	PASS

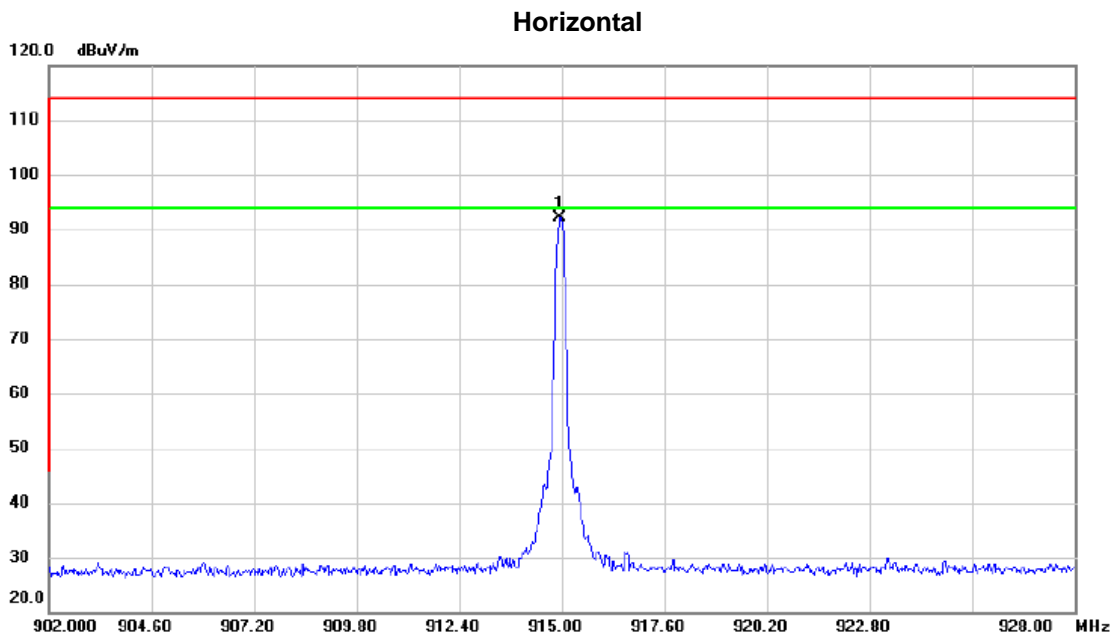
Test Mode: TX_915

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	30.0000	52.28	-18.45	33.83	40.00	-6.17	peak	
2		122.1500	47.17	-18.47	28.70	43.50	-14.80	peak	
3		165.3150	48.27	-16.20	32.07	43.50	-11.43	peak	
4		324.8800	44.04	-14.94	29.10	46.00	-16.90	peak	
5		432.0650	41.10	-12.50	28.60	46.00	-17.40	peak	
6		556.2250	36.44	-10.34	26.10	46.00	-19.90	peak	

Test Mode:	TX_915
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	914.9610	97.79	-5.66	92.13	114.00	-21.87	peak	

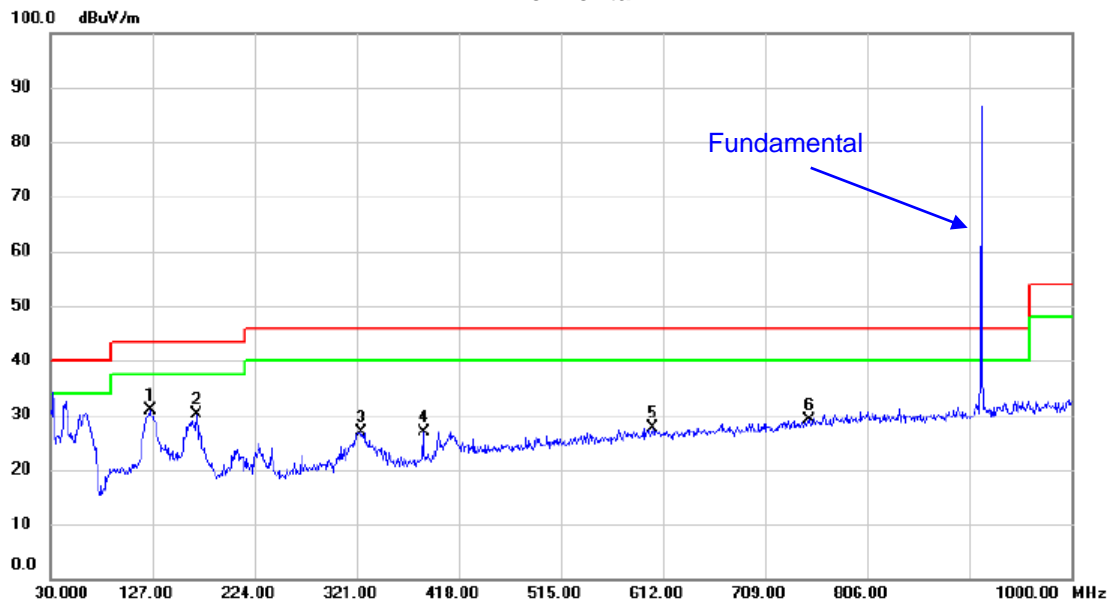
Remark:

- (1) The average value of fundamental frequency is:
Average Reading = Peak value + 20log(Duty cycle) , AV=Peak-7.6

Frequency (MHz)	Peak value (dBuV/m)	AV value (dBuV/m)	AV Limit (dBuV/m)	Result
915	92.13	84.53	94	PASS

Test Mode: TX_915

Horizontal

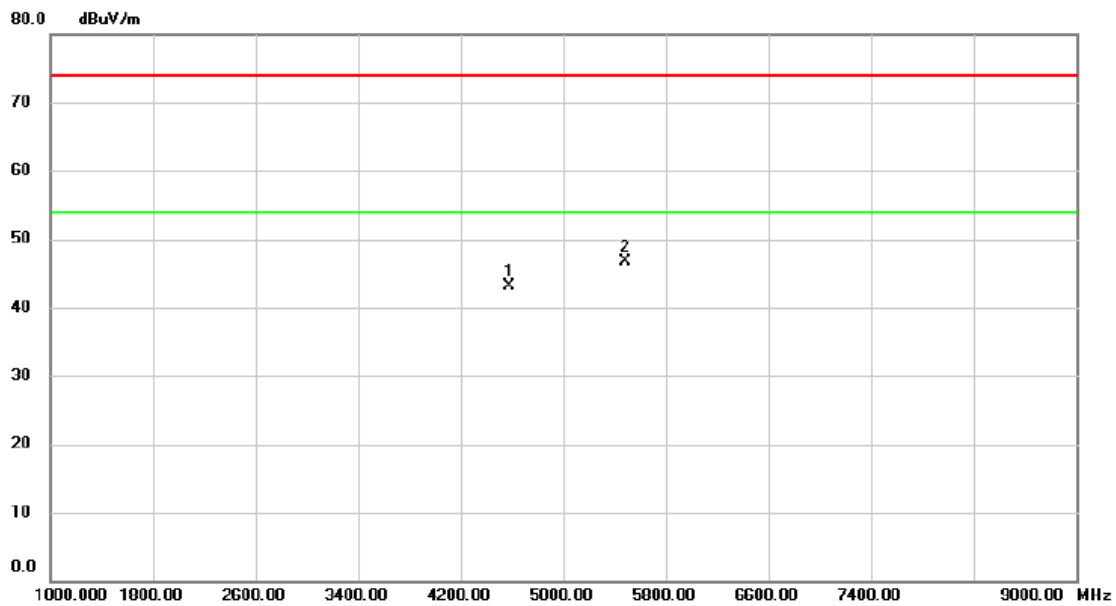


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	124.5750	49.11	-18.22	30.89	43.50	-12.61	peak	
2		168.7100	46.44	-16.30	30.14	43.50	-13.36	peak	
3		325.8500	41.78	-14.92	26.86	46.00	-19.14	peak	
4		384.5350	40.52	-13.65	26.87	46.00	-19.13	peak	
5		601.8150	36.77	-9.15	27.62	46.00	-18.38	peak	
6		751.1950	36.33	-7.21	29.12	46.00	-16.88	peak	

APPENDIX C- RADIATED EMISSION- ABOVE 1000 MHZ

Test Mode:	TX_915
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Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4574.800	54.67	-11.47	43.20	74.00	-30.80	peak	
2	*	5490.000	56.35	-9.62	46.73	74.00	-27.27	peak	

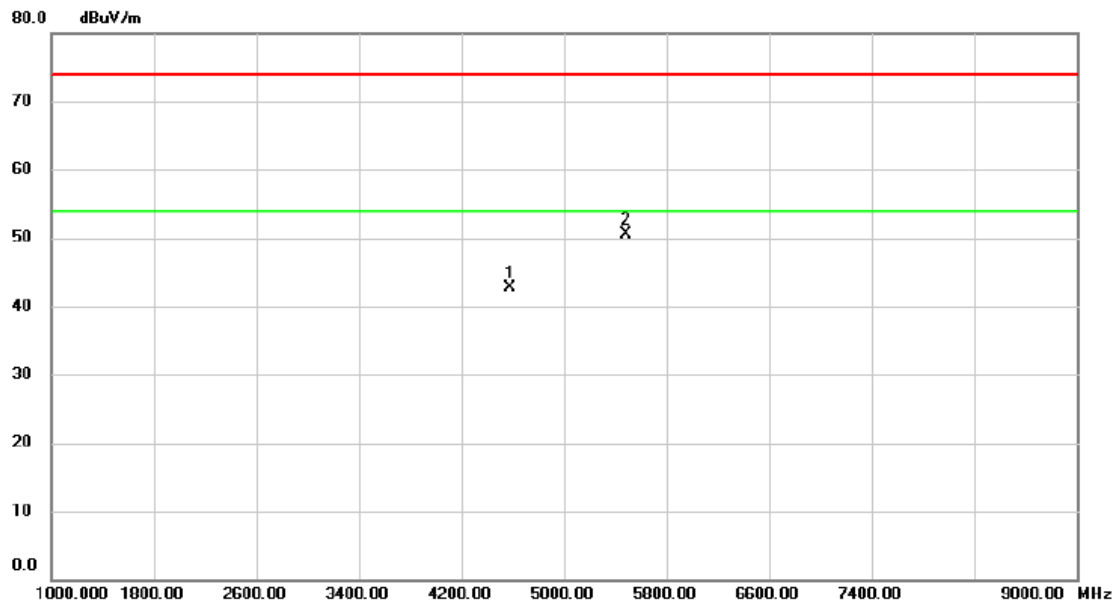
Remark:

- (1) The average value of fundamental frequency is:
Average Reading = Peak value + 20log(Duty cycle) , AV =Peak-7.60

Frequency (MHz)	Peak value (dBuV/m)	AV value (dBuV/m)	AV Limit (dBuV/m)	Result
5490	46.73	39.13	54	PASS

Test Mode:	TX_915
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Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4574.800	54.10	-11.47	42.63	74.00	-31.37	peak	
2	*	5490.000	60.20	-9.62	50.58	74.00	-23.42	peak	

Remark:

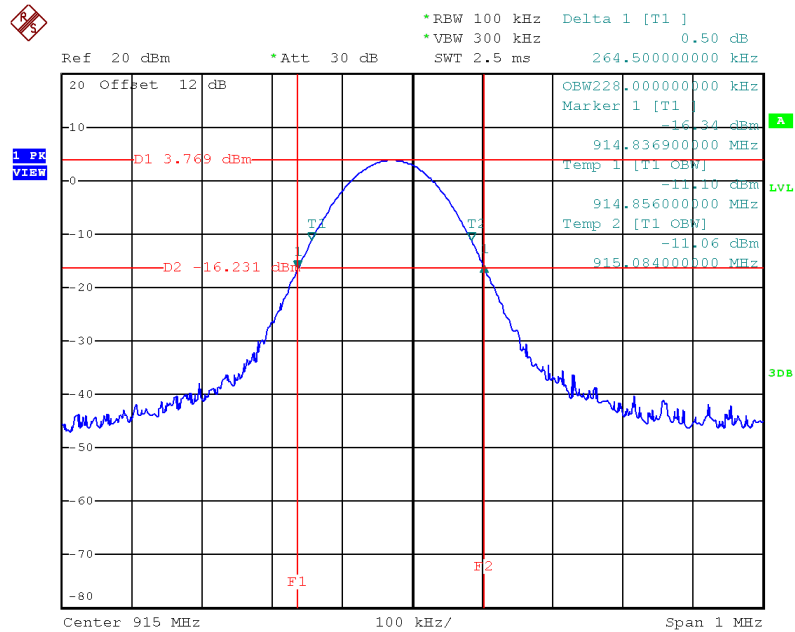
- (1) The average value of fundamental frequency is:
Average Reading = Peak value + 20log(Duty cycle) , AV =Peak-7.60

Frequency (MHz)	Peak value (dBuV/m)	AV value (dBuV/m)	AV Limit (dBuV/m)	Result
5490	50.58	42.98	54	PASS

APPENDIX D - BANDWIDTH

Test Mode	TX_915
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Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99% Occupied BW (MHz)
01	915	0.2645	0.228



Date: 25.NOV.2020 14:40:46

End of Test Report