FCC Test Report

Report No.: AGC01684191204FE03

FCC ID	:	2AVZYX1
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	ALARM SYSTEM
BRAND NAME	:	MAXKIN
MODEL NAME	:	X1, MK-X1, X1 Wi-Fi 2G PLUS, X1 Wi-Fi 3G PLUS, X1 2G PLUS, X1 3G PLUS
APPLICANT	:	Maxkin Mobile Technology Co., Ltd
DATE OF ISSUE	:	Apr. 11, 2020
STANDARD(S) **TEST PROCEDURE(S)**	:	FCC Part 15 Subpart C Section 15.231
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 11, 2020	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Maxkin Mobile Technology Co., Ltd
Address	Room 301, 3rd floor,NO.26 Laowei 1st Zone, Shuidoulaowei, Yousong Community, Longhua District, Shenzhen, China
Manufacturer	Maxkin Mobile Technology Co., Ltd
Address	Room 301, 3rd floor,NO.26 Laowei 1st Zone, Shuidoulaowei, Yousong Community, Longhua District, Shenzhen, China
Factory	Maxkin Mobile Technology Co., Ltd
Address	Room 301, 3rd floor,NO.26 Laowei 1st Zone, Shuidoulaowei, Yousong Community, Longhua District, Shenzhen, China
Product Designation	ALARM SYSTEM
Brand Name	MAXKIN
Test Model	X1
Series Model	MK-X1, X1 Wi-Fi 2G PLUS, X1 Wi-Fi 3G PLUS, X1 2G PLUS, X1 3G PLUS
Difference Description	All the same except for the model name
Date of test	Dec. 27, 2019 to Mar. 30, 2020
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.231. The test results of this report relate only to the tested sample identified in this report.

Prepared By	Sky Dong (Project Engineer)	Apr. 11, 2020
Reviewed By	Max Zhang (Reviewer)	Apr. 11, 2020
Approved By	Forrest Lei (Authorized Officer)	Apr. 11, 2020

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	433.2MHz, 434.0MHz, 434.4MHz
Field Strength(3m)	73.47dBuV/m(Peak)@3m
Modulation	GFSK
Number of channels	3
Hardware Version	x1_tuya v1.1
Software Version	V1.0.1
Antenna Designation	Integral antenna
Antenna Gain	3dBi
Power Supply	DC 3.7V by battery or DC 12V by adapter

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %

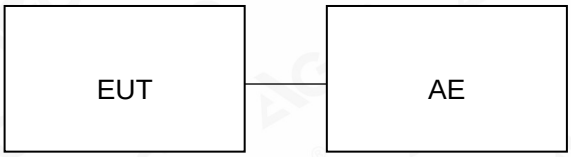
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Transmitting mode(Activated manually)
Note: 1. All the test modes can be supply by new battery, and only the data of the worst case recorded in the test report. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.	

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	ALARM SYSTEM	MAXKIN	X1	EUT
2	Adapter	N/A	ICP12-120-1000D	AE
3	T sensor	Bellman&symfon	BE1210	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.231(a)(2)	Activated manually	Compliant
ANSI C63.10 Clause 7.5	Average Factor	N/A
§15.231(b) & §15.209	Field Strength of Fundamental and Spurious Emission	Compliant
§15.231(c)	Bandwidth	Compliant
§15.207	Line Conduction Emission	Compliant

6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

7. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1 (Ver V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

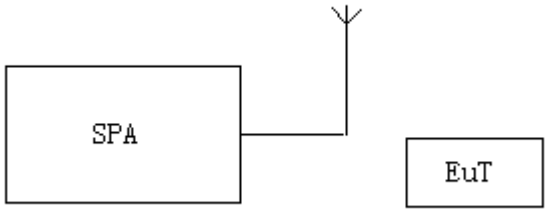
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 26, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
Attenuator	ZHINAN	E-002	N/A	Aug. 26, 2019	Aug. 25, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 14, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021

8. PROVISION FOR MOMENTARY OPERATION

8.1 MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:
   Centre frequency = Operation Frequency
   RBW=1MHz, VBW=3MHz
   Span: 0Hz
   Sweep time: 10S
2. Set the EUT to transmit activated automatically. Use the “View” function of SPA to find the transmission time of being released.
3. Record the data and Reported.

8.2 TEST SETUP

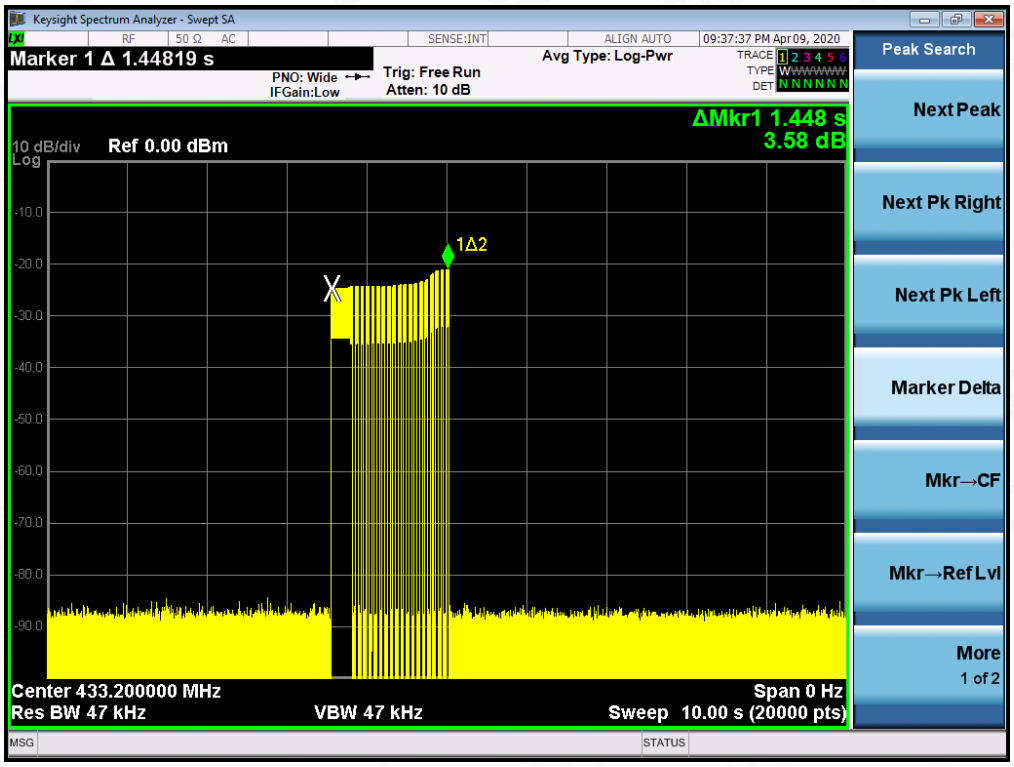


8.3 TEST RESULT

Mode2(Activated manually):

Test Mode: EUT @ 433.2MHz for RF Transmitter

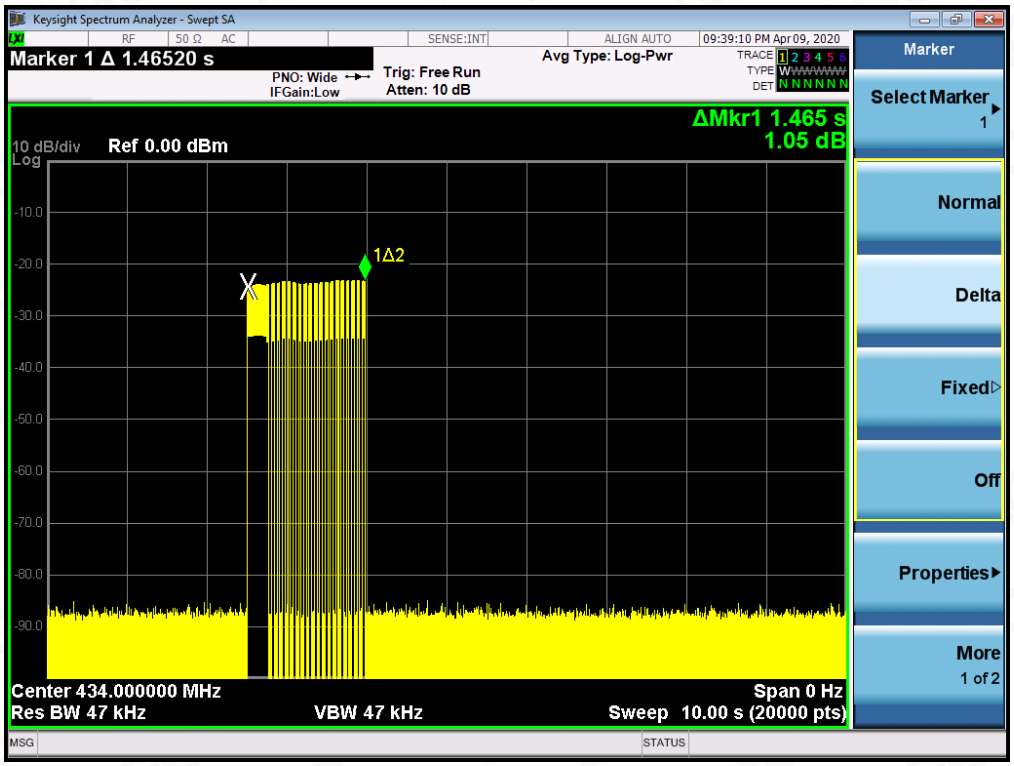
The time of stopping transmission	Limit (s)
1.448	5.00



RESULT: PASS

Test Mode: EUT @ 434.0MHz for RF Transmitter

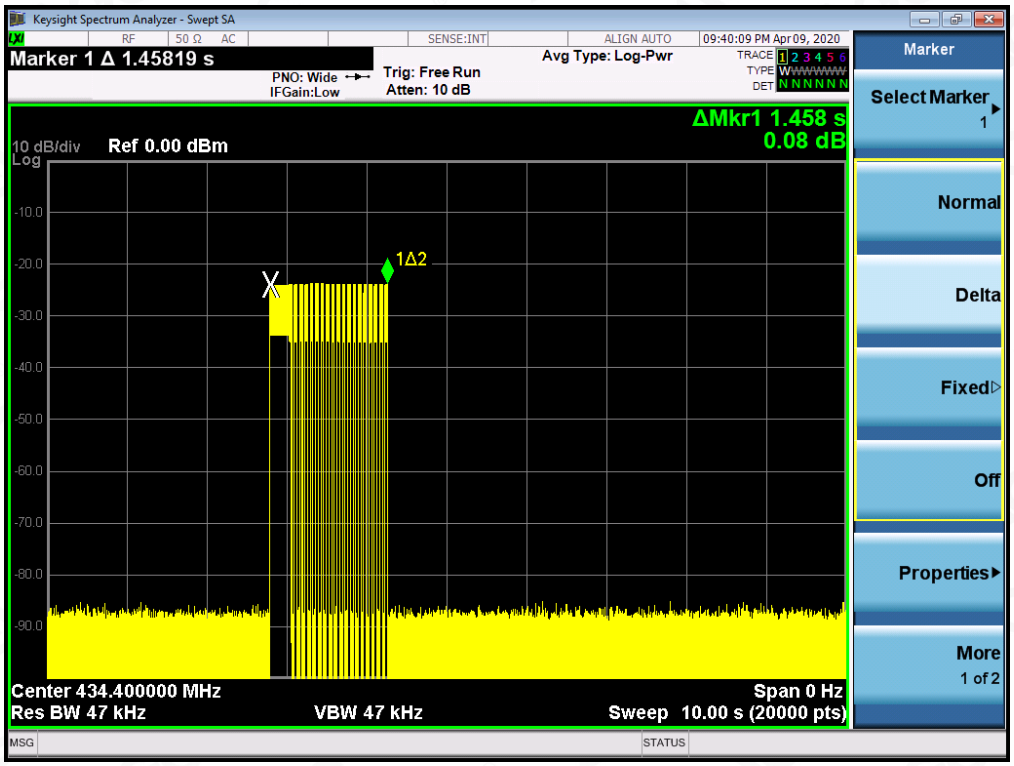
The time of stopping transmission	Limit (s)
1.465	5.00



RESULT: PASS

Test Mode: EUT @ 433.4MHz for RF Transmitter

The time of stopping transmission	Limit (s)
1.458	5.00



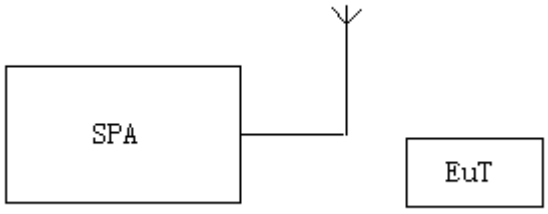
RESULT: PASS

9. DUTY CYCLE CORRECTION FACTOR

9.1 MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:
   Centre frequency = Operation Frequency
   RBW=1MHz; VBW=3MHz
   Span: 0Hz
   Sweep time: more than two pulse trains or more than each type of pulse occupancy time
2. Set the EUT to transmit by manually operated. Use the “Delta mark” function of SPA to find the period time between two pulse trains and each type of pulse occupancy time.
3. Record the plots and Reported.

9.2 TEST SETUP



9.3 TEST RESULT

Note: The level of the peak emission are less than the average limit, so the average factor need not to be tested.

10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

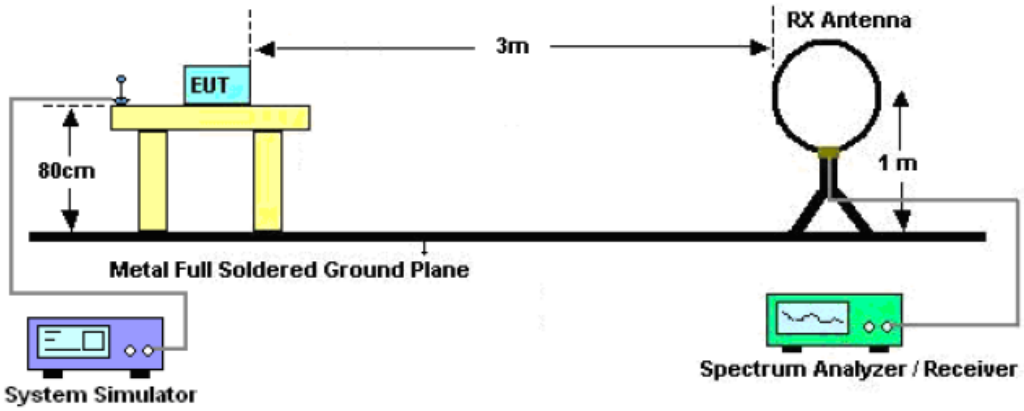
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

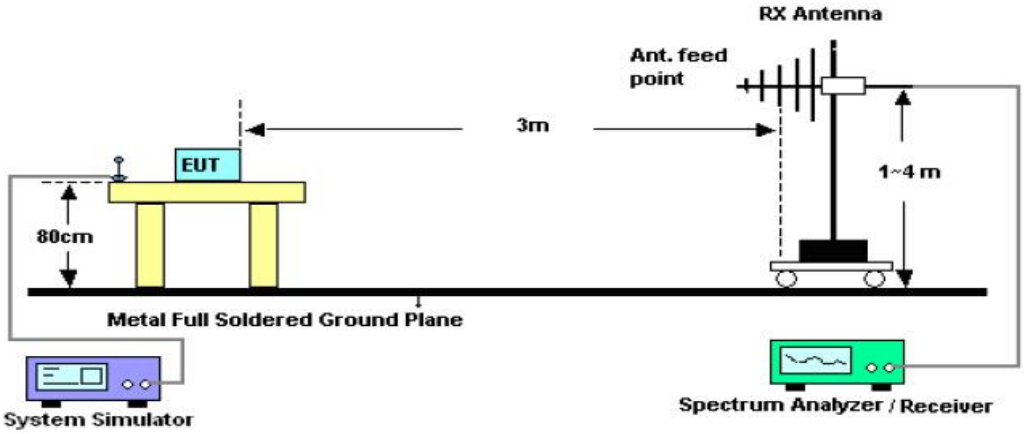
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP

10.2. TEST SETUP

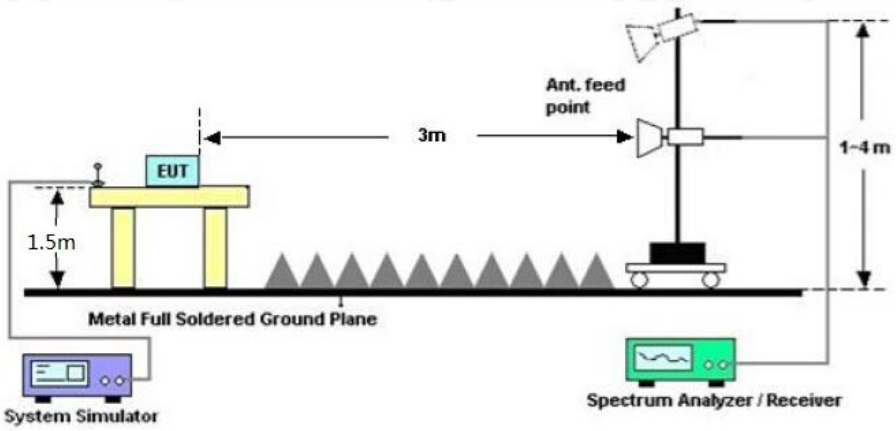
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



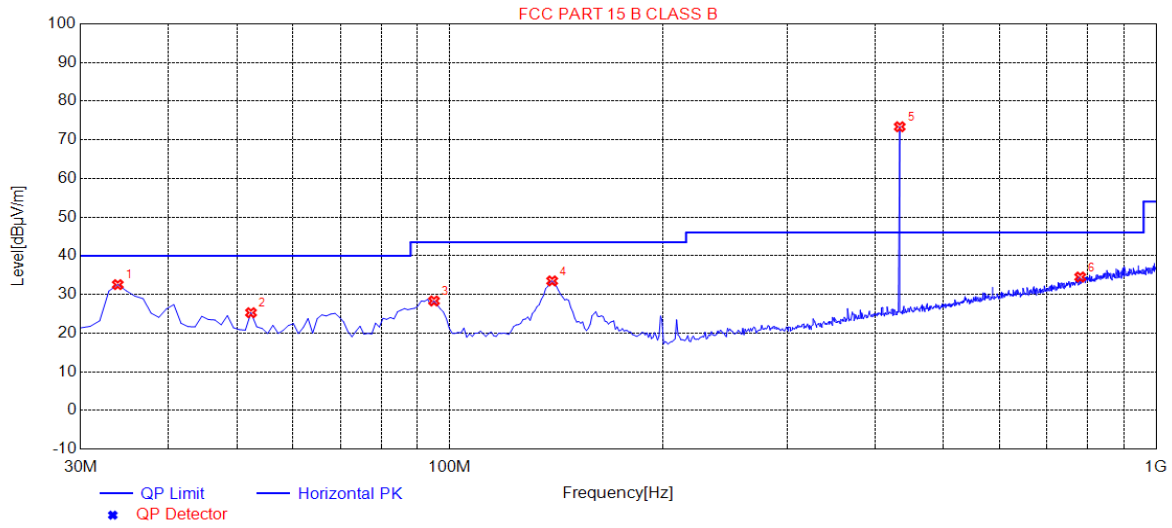
10.3. TEST RESULT

Test Mode: EUT @ 433.2MHz for RF Transmitter

RADIATED EMISSION BELOW 30MHz

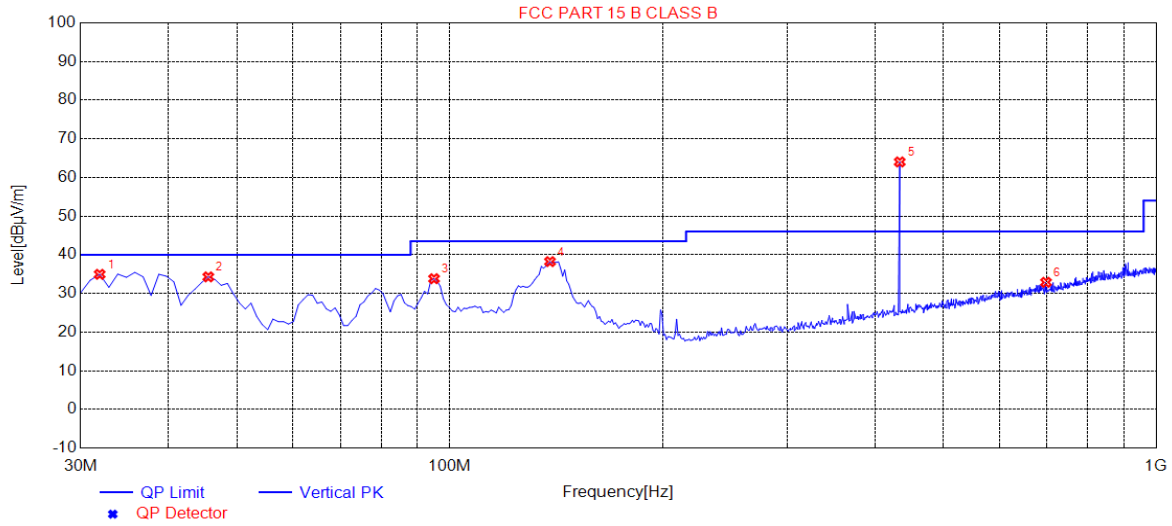
No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ-Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.8800	32.53	13.53	40.00	7.47	100	114	Horizontal
2	52.3100	25.27	14.49	40.00	14.73	200	243	Horizontal
3	94.9900	28.31	10.82	43.50	15.19	200	240	Horizontal
4	139.6100	33.49	14.85	43.50	10.01	200	155	Horizontal
5	433.2000	73.37	20.61	80.80	7.43	100	111	Horizontal
6	780.7800	34.50	27.97	46.00	11.50	200	360	Horizontal

RADIATED EMISSION BELOW 1GHZ-Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.9400	34.94	13.19	40.00	5.06	100	292	Vertical
2	45.5200	34.28	14.80	40.00	5.72	100	299	Vertical
3	94.9900	33.81	10.82	43.50	9.69	100	52	Vertical
4	138.6400	38.23	14.78	43.50	5.27	100	135	Vertical
5	433.2000	64.01	20.61	80.80	16.79	100	8	Vertical
6	698.3300	32.87	25.94	46.00	13.13	100	22	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

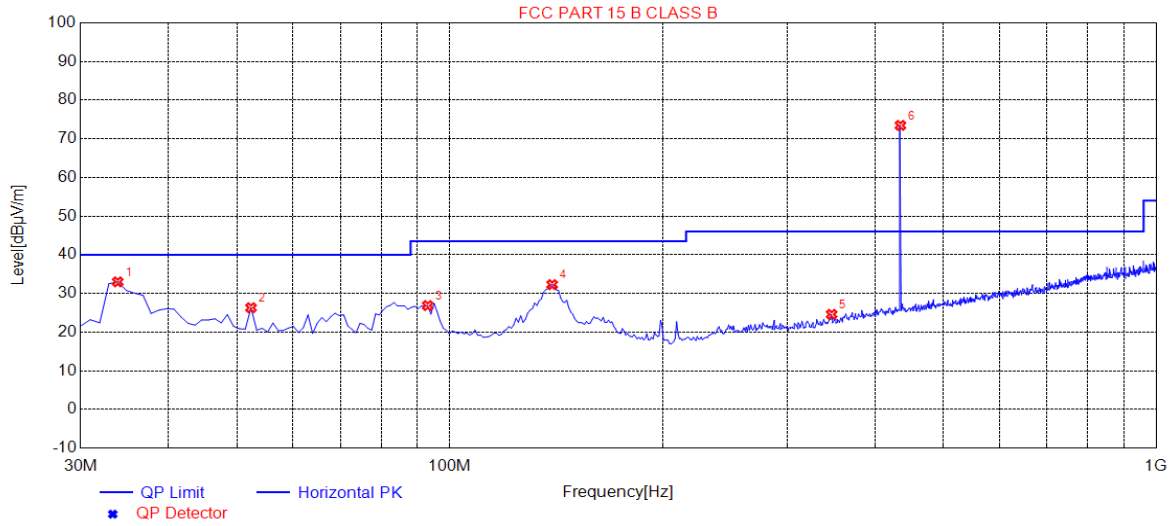
3. Emissions of frequency range from 1GHz to 5GHz have 20dB margin. No recording in the test report.

Test Mode: EUT @ 434.0MHz for RF Transmitter

RADIATED EMISSION BELOW 30MHz

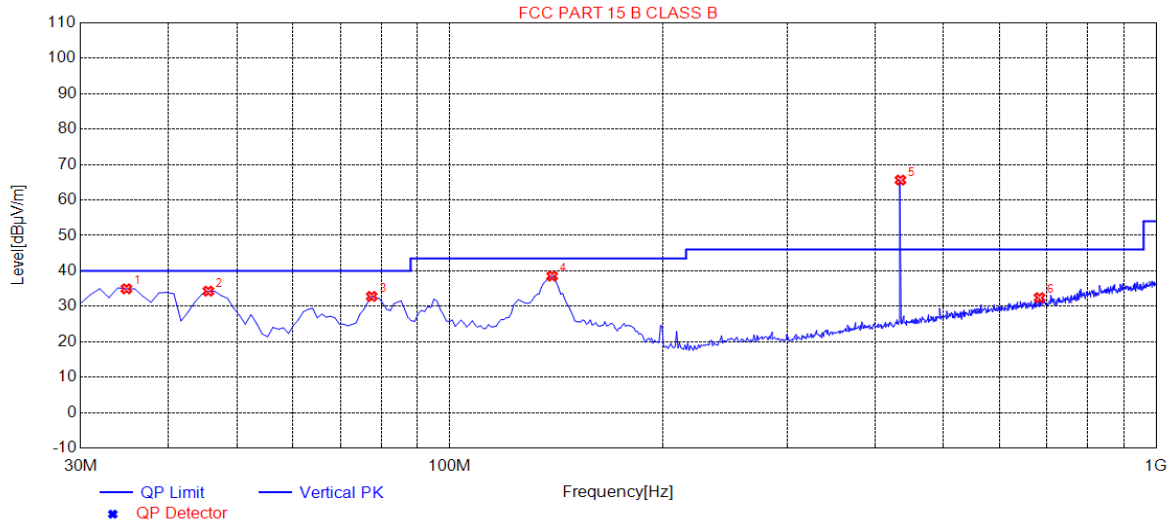
No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ-Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.8800	32.99	13.53	40.00	7.01	100	219	Horizontal
2	52.3100	26.30	14.49	40.00	13.70	200	176	Horizontal
3	93.0500	26.86	10.61	43.50	16.64	200	212	Horizontal
4	139.6100	32.27	14.85	43.50	11.23	200	137	Horizontal
5	347.1900	24.59	17.75	46.00	21.41	100	173	Horizontal
6	434.0000	73.47	20.63	80.83	7.36	200	351	Horizontal

RADIATED EMISSION BELOW 1GHZ-Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8500	34.93	13.70	40.00	5.07	100	124	Vertical
2	45.5200	34.28	14.80	40.00	5.72	100	359	Vertical
3	77.5300	32.80	10.66	40.00	7.20	100	301	Vertical
4	139.6100	38.52	14.85	43.50	4.98	100	199	Vertical
5	434.0000	65.63	20.63	80.83	15.20	100	163	Vertical
6	683.7800	32.44	25.69	46.00	13.56	100	311	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

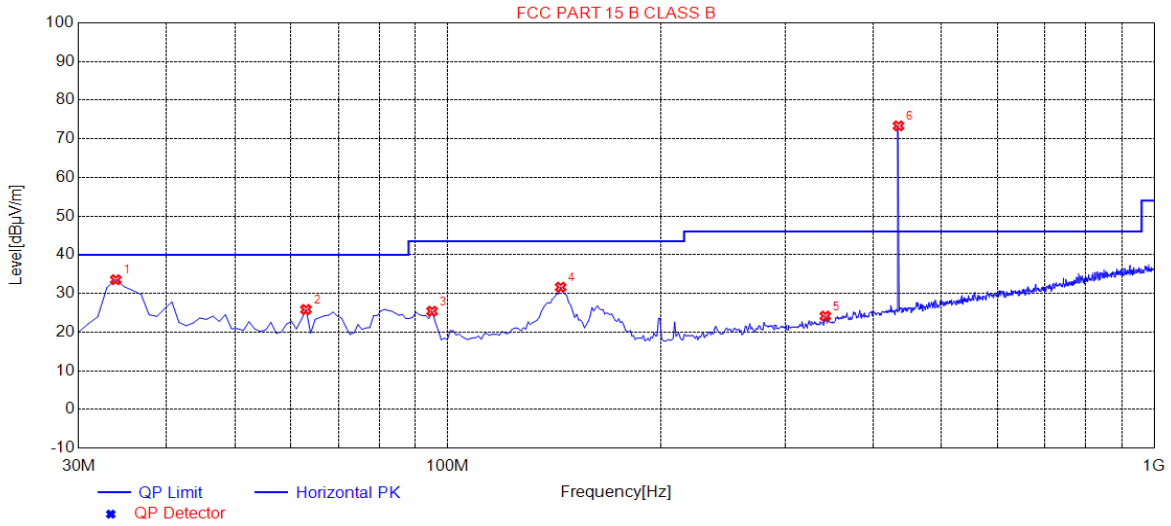
3. Emissions of frequency range from 1GHz to 5GHz have 20dB margin. No recording in the test report.

Test Mode: EUT @ 434.4MHz for RF Transmitter

RADIATED EMISSION BELOW 30MHz

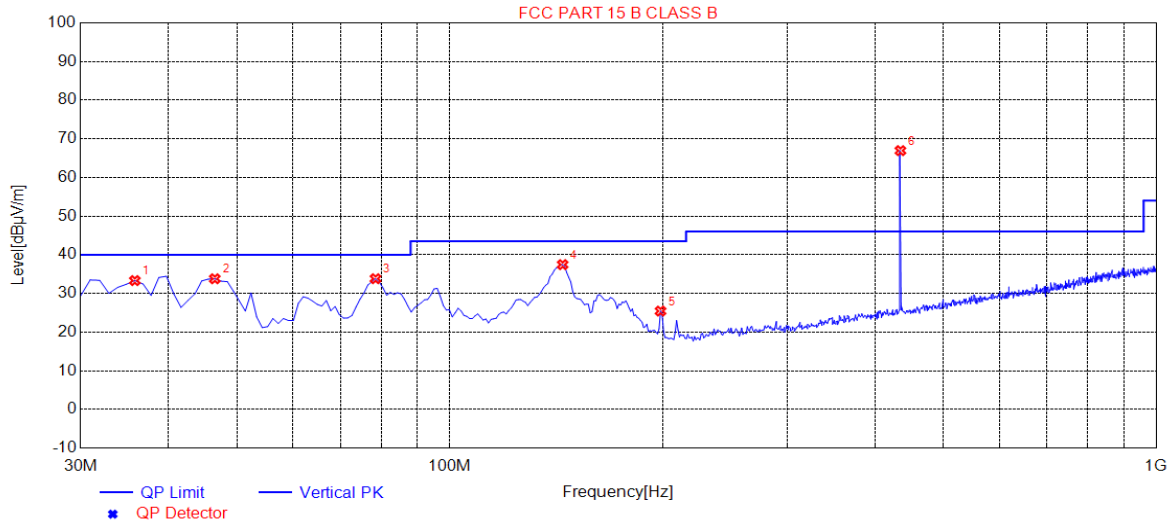
No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ-Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.8800	33.54	13.53	40.00	6.46	100	75	Horizontal
2	62.9800	25.84	13.42	40.00	14.16	100	327	Horizontal
3	94.9900	25.39	10.82	43.50	18.11	200	236	Horizontal
4	144.4600	31.61	14.88	43.50	11.89	200	150	Horizontal
5	342.3400	24.13	17.56	46.00	21.87	100	128	Horizontal
6	434.4000	73.35	20.63	80.84	7.49	200	102	Horizontal

RADIATED EMISSION BELOW 1GHZ-Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8200	33.32	13.93	40.00	6.68	100	182	Vertical
2	46.4900	33.79	14.77	40.00	6.21	100	228	Vertical
3	78.5000	33.81	10.46	40.00	6.19	100	288	Vertical
4	144.4600	37.45	14.88	43.50	6.05	100	113	Vertical
5	198.7800	25.43	12.11	43.50	18.07	100	80	Vertical
6	434.4000	66.94	20.63	80.84	13.90	100	126	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

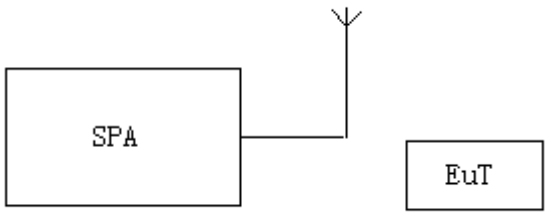
3. Emissions of frequency range from 1GHz to 5GHz have 20dB margin. No recording in the test report.

11. BANDWIDTH

11.1. MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:
   Centre frequency = Operation Frequency
   RBW=10kHz
   VBW=30KHz
   Span: 500kHz
   Sweep time: Auto
2. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the “N dB down” function of SPA to define the bandwidth.
3. Record the plots and Reported.

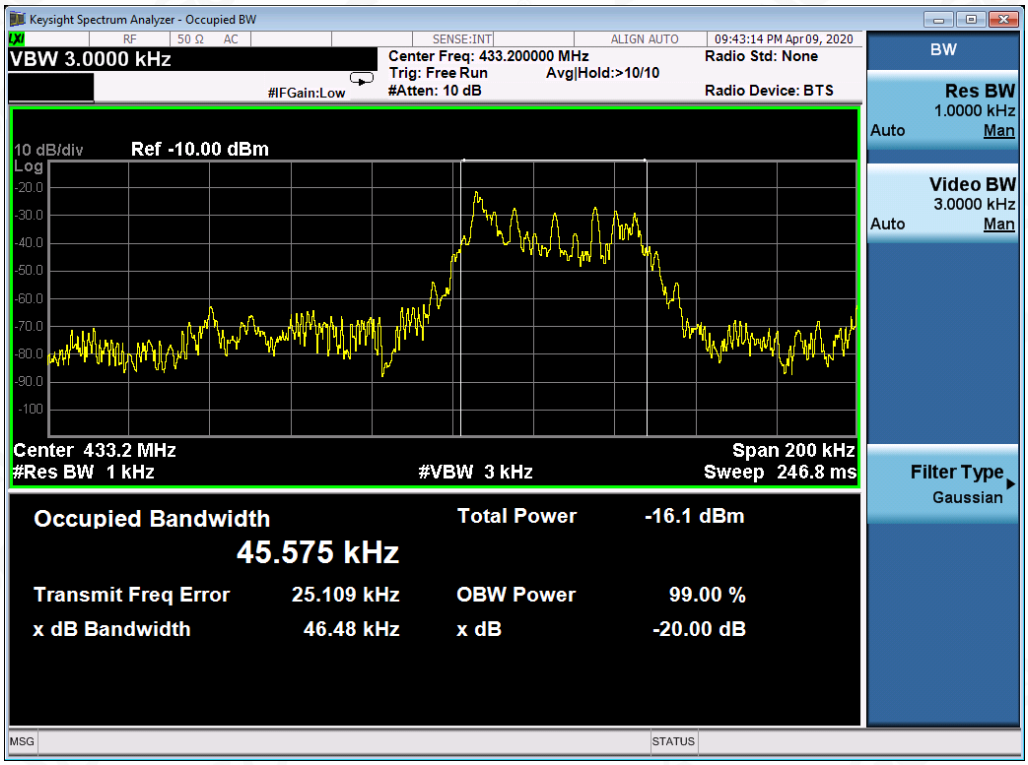
11.2. TEST SETUP



11.3. TEST RESULT

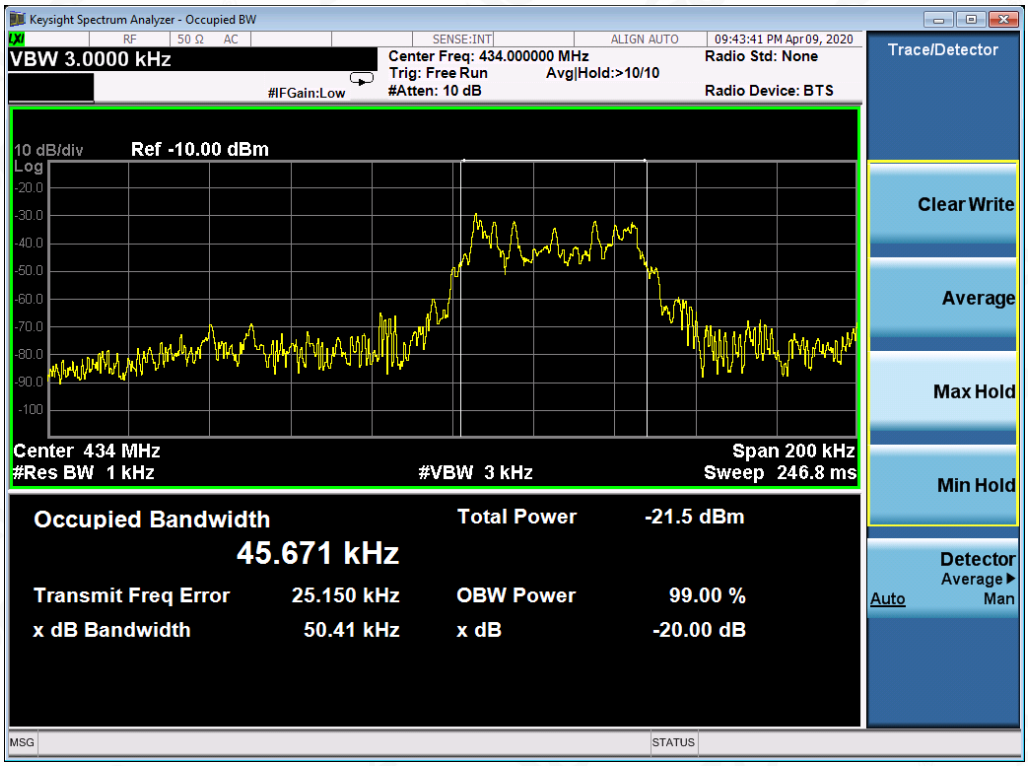
Test Mode: EUT @ 433.2MHz for RF Transmitter

-20dB bandwidth	LIMIT	RESULT
46.48kHz	1083.0KHz	Pass
Note: Limit= Operation Frequency ×0.25%		



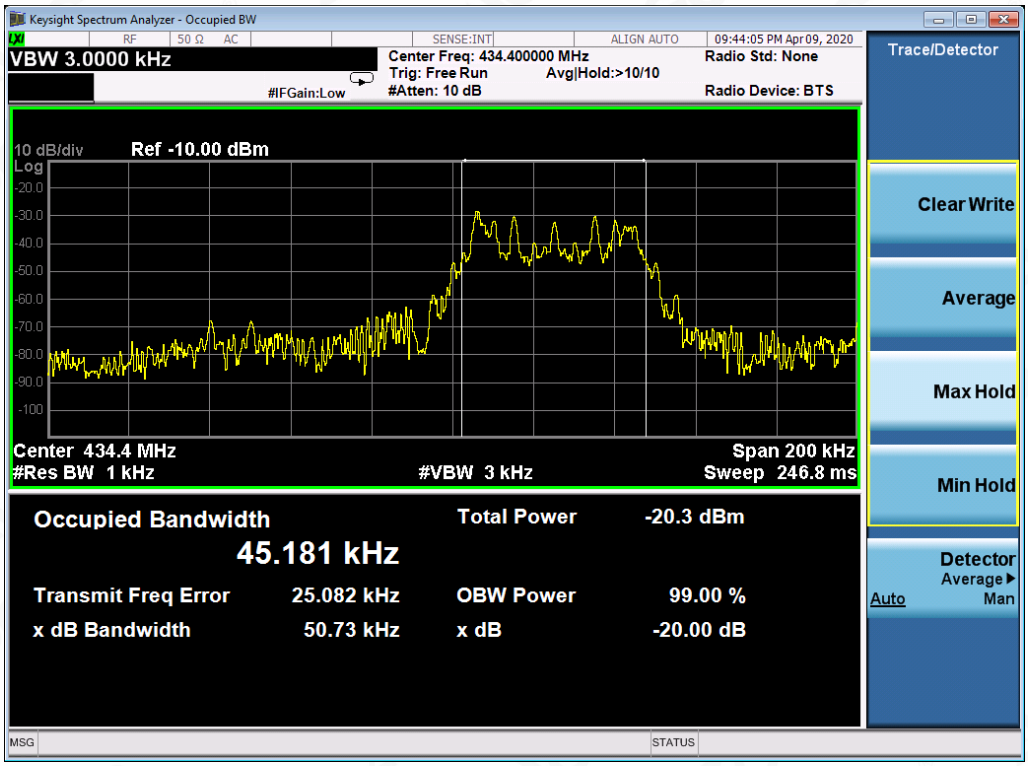
Test Mode: EUT @ 434.0MHz for RF Transmitter

-20dB bandwidth	LIMIT	RESULT
50.41kHz	1085.0KHz	Pass
Note: Limit= Operation Frequency ×0.25%		



Test Mode: EUT @ 434.4MHz for RF Transmitter

-20dB bandwidth	LIMIT	RESULT
50.73kHz	1086.0KHz	Pass
Note: Limit= Operation Frequency ×0.25%		



12. FCC LINE CONDUCTED EMISSION TEST

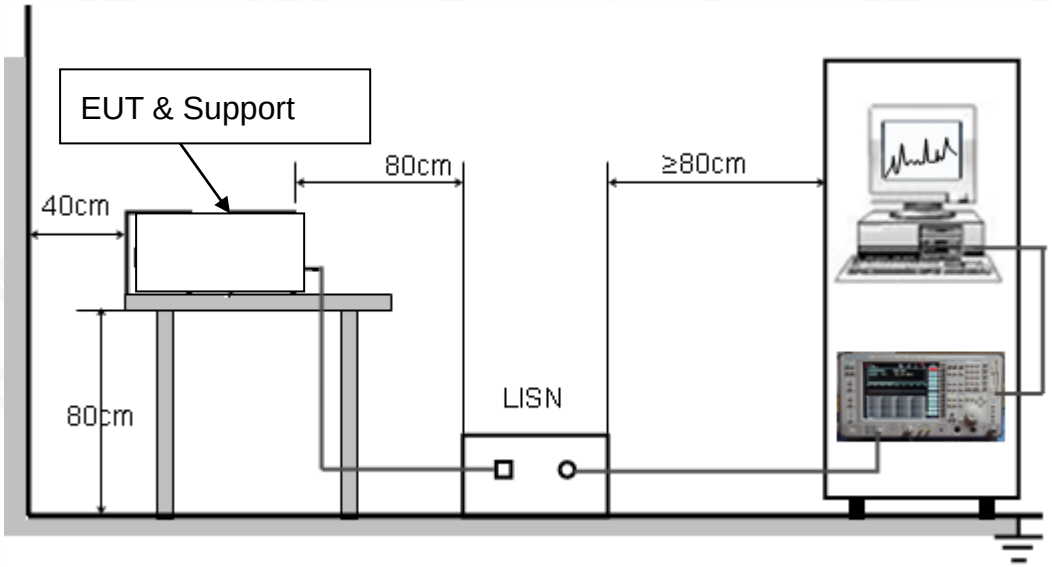
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 12V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

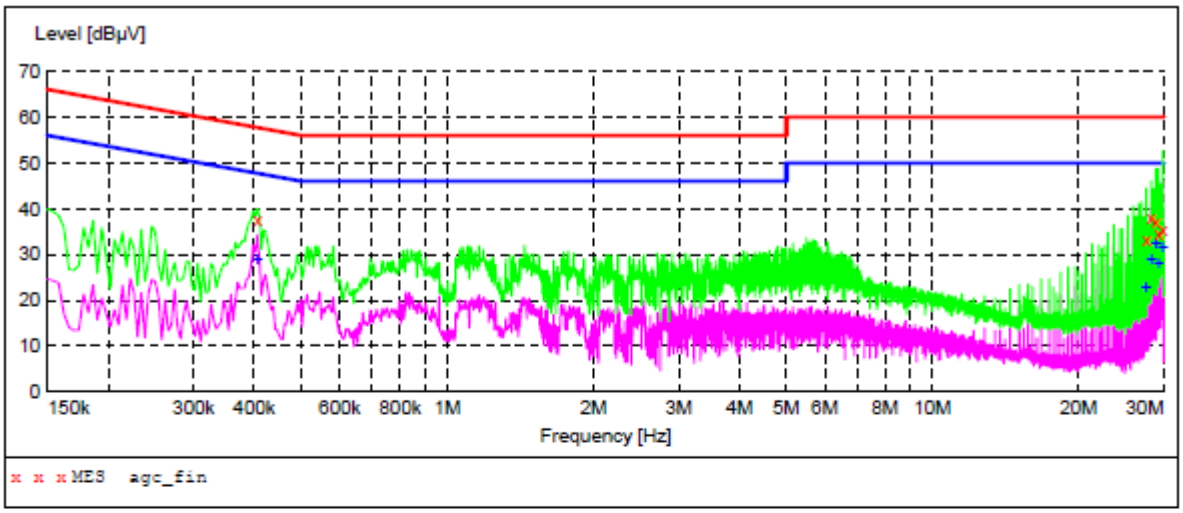
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

433.2MHz

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

2020/1/3 23:30

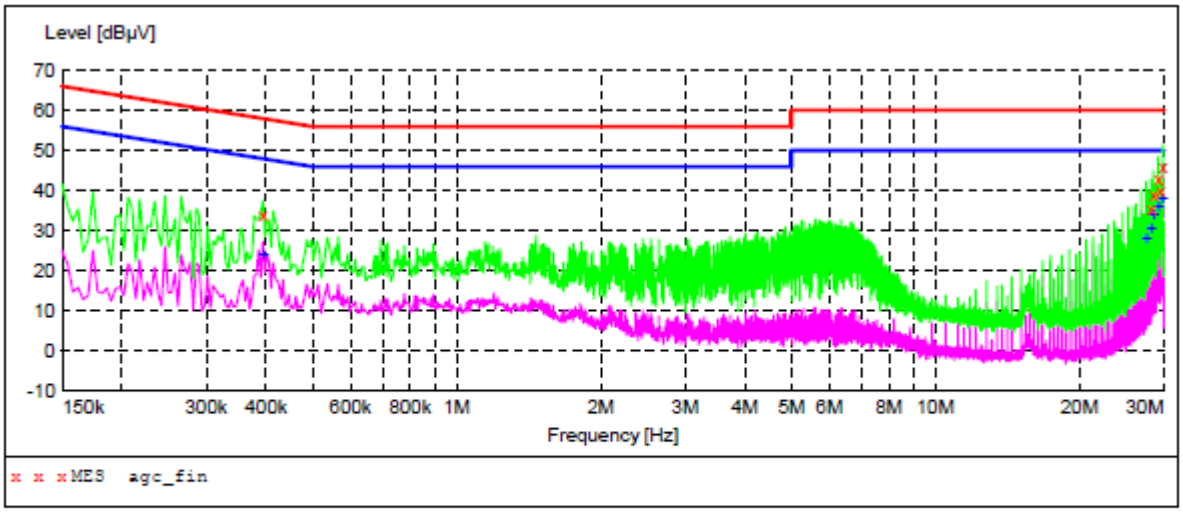
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.406000	37.80	11.0	58	19.9	QP	L1	FLO
27.598000	33.40	12.5	60	26.6	QP	L1	FLO
28.254000	38.00	12.6	60	22.0	QP	L1	FLO
28.910000	37.10	12.6	60	22.9	QP	L1	FLO
29.242000	34.40	12.6	60	25.6	QP	L1	FLO
29.898000	35.40	12.6	60	24.6	QP	L1	FLO

MEASUREMENT RESULT: "agc_fin2"

2020/1/3 23:30

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.406000	28.70	11.0	48	19.0	AV	L1	FLO
27.598000	22.70	12.5	50	27.3	AV	L1	FLO
28.254000	28.80	12.6	50	21.2	AV	L1	FLO
28.910000	32.20	12.6	50	17.8	AV	L1	FLO
29.242000	27.90	12.6	50	22.1	AV	L1	FLO
29.898000	31.40	12.6	50	18.6	AV	L1	FLO

Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2020/1/3 23:35

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.394000	34.10	11.0	58	23.9	QP	N	FLO
28.234000	35.60	12.6	60	24.4	QP	N	FLO
28.562000	39.10	12.6	60	20.9	QP	N	FLO
29.218000	42.90	12.6	60	17.1	QP	N	FLO
29.546000	40.10	12.6	60	19.9	QP	N	FLO
29.874000	45.80	12.6	60	14.2	QP	N	FLO

MEASUREMENT RESULT: "agc_fin2"

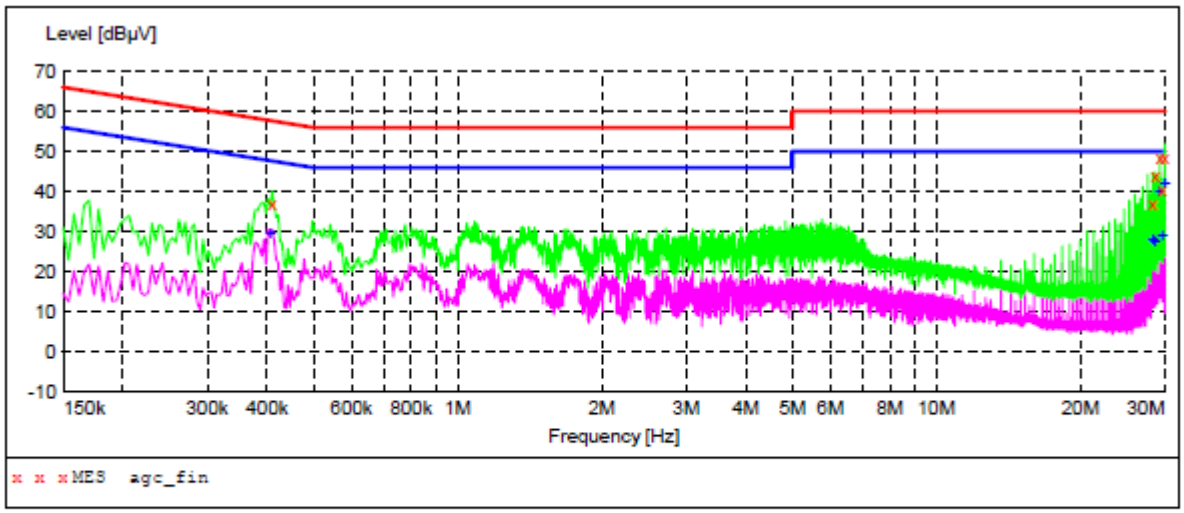
2020/1/3 23:35

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.394000	23.80	11.0	48	24.2	AV	N	FLO
27.578000	27.80	12.5	50	22.2	AV	N	FLO
28.234000	30.50	12.6	50	19.5	AV	N	FLO
28.562000	34.00	12.6	50	16.0	AV	N	FLO
29.218000	36.20	12.6	50	13.8	AV	N	FLO
29.874000	38.00	12.6	50	12.0	AV	N	FLO

RESULT: PASS

434.0MHz

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

2020/1/3 23:48

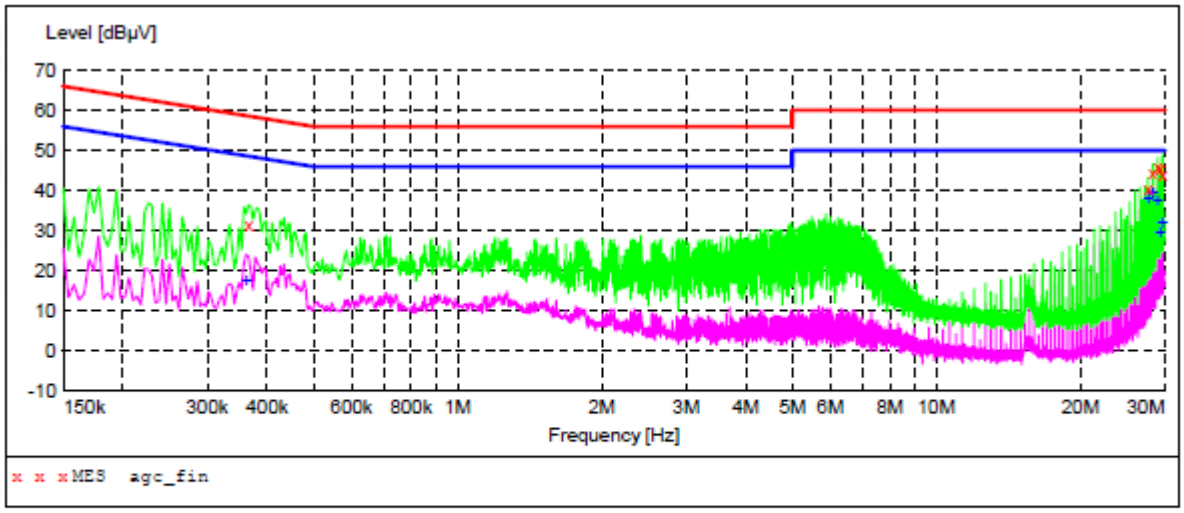
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.410000	36.80	11.0	58	20.8	QP	L1	FLO
28.326000	36.80	12.6	60	23.2	QP	L1	FLO
28.654000	44.20	12.6	60	15.8	QP	L1	FLO
29.322000	48.20	12.6	60	11.8	QP	L1	FLO
29.658000	40.60	12.6	60	19.4	QP	L1	FLO
29.990000	48.60	12.6	60	11.4	QP	L1	FLO

MEASUREMENT RESULT: "agc_fin2"

2020/1/3 23:48

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.406000	29.70	11.0	48	18.0	AV	L1	FLO
28.326000	27.90	12.6	50	22.1	AV	L1	FLO
28.658000	27.40	12.6	50	22.6	AV	L1	FLO
29.322000	40.10	12.6	50	9.9	AV	L1	FLO
29.658000	29.10	12.6	50	20.9	AV	L1	FLO
29.990000	41.70	12.6	50	8.3	AV	L1	FLO

Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2020/1/3 23:40

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.366000	31.30	10.9	59	27.3	QP	N	FLO
27.682000	40.30	12.5	60	19.7	QP	N	FLO
28.350000	44.60	12.6	60	15.4	QP	N	FLO
29.018000	46.10	12.6	60	13.9	QP	N	FLO
29.354000	45.30	12.6	60	14.7	QP	N	FLO
29.686000	44.10	12.6	60	15.9	QP	N	FLO

MEASUREMENT RESULT: "agc_fin2"

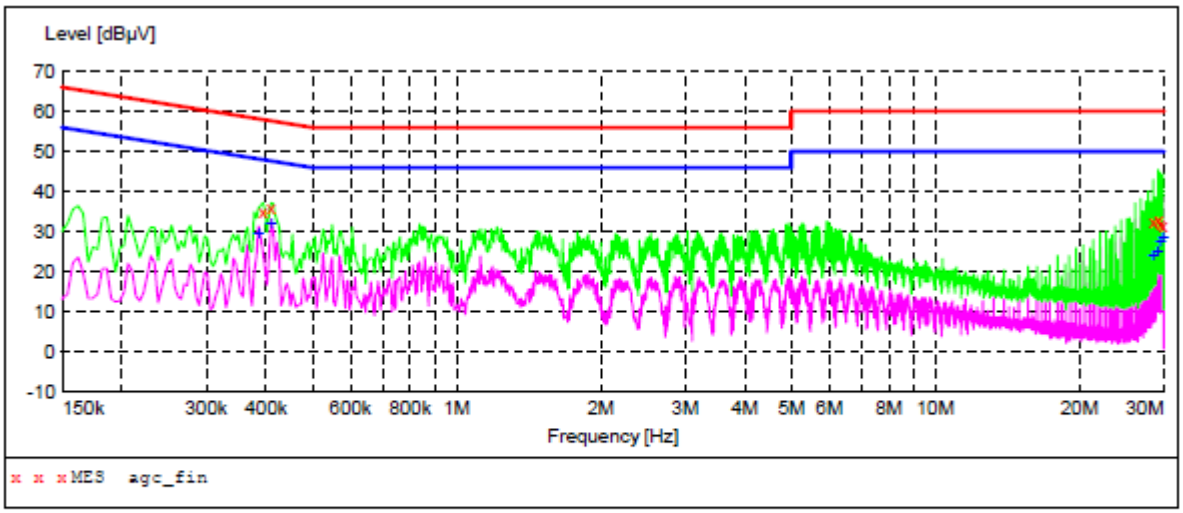
2020/1/3 23:40

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.362000	17.60	10.9	49	31.1	AV	N	FLO
27.682000	37.90	12.5	50	12.1	AV	N	FLO
28.350000	39.40	12.6	50	10.6	AV	N	FLO
29.018000	37.70	12.6	50	12.3	AV	N	FLO
29.354000	29.60	12.6	50	20.4	AV	N	FLO
29.686000	31.90	12.6	50	18.1	AV	N	FLO

RESULT: PASS

434.4MHz

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

2020/1/3 23:56

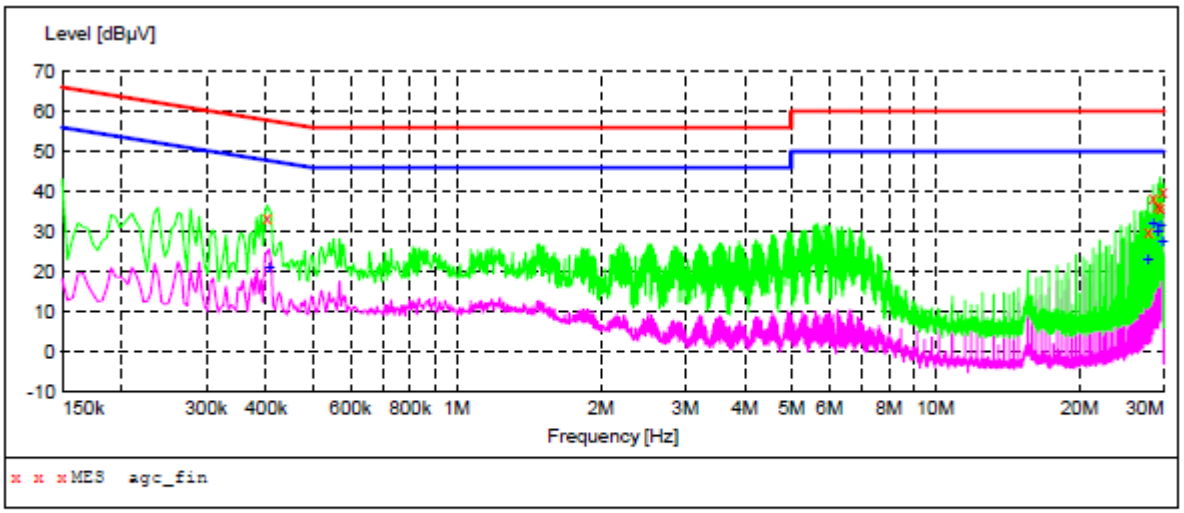
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.394000	35.10	11.0	58	22.9	QP	L1	FLO
0.410000	36.00	11.0	58	21.6	QP	L1	FLO
28.530000	32.50	12.6	60	27.5	QP	L1	FLO
29.210000	32.90	12.6	60	27.1	QP	L1	FLO
29.550000	32.00	12.6	60	28.0	QP	L1	FLO
29.890000	31.30	12.6	60	28.7	QP	L1	FLO

MEASUREMENT RESULT: "agc_fin2"

2020/1/3 23:58

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.386000	29.70	11.0	48	18.4	AV	L1	FLO
0.410000	32.20	11.0	48	15.4	AV	L1	FLO
28.530000	24.10	12.6	50	25.9	AV	L1	FLO
29.210000	24.90	12.6	50	25.1	AV	L1	FLO
29.550000	27.40	12.6	50	22.6	AV	L1	FLO
29.890000	28.40	12.6	50	21.6	AV	L1	FLO

Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2020/1/4 0:02

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.402000	33.50	11.0	58	24.3	QP	N	FLO
27.830000	30.10	12.5	60	29.9	QP	N	FLO
28.506000	38.30	12.6	60	21.7	QP	N	FLO
29.186000	36.60	12.6	60	23.4	QP	N	FLO
29.526000	35.80	12.6	60	24.2	QP	N	FLO
29.862000	40.10	12.6	60	19.9	QP	N	FLO

MEASUREMENT RESULT: "agc_fin2"

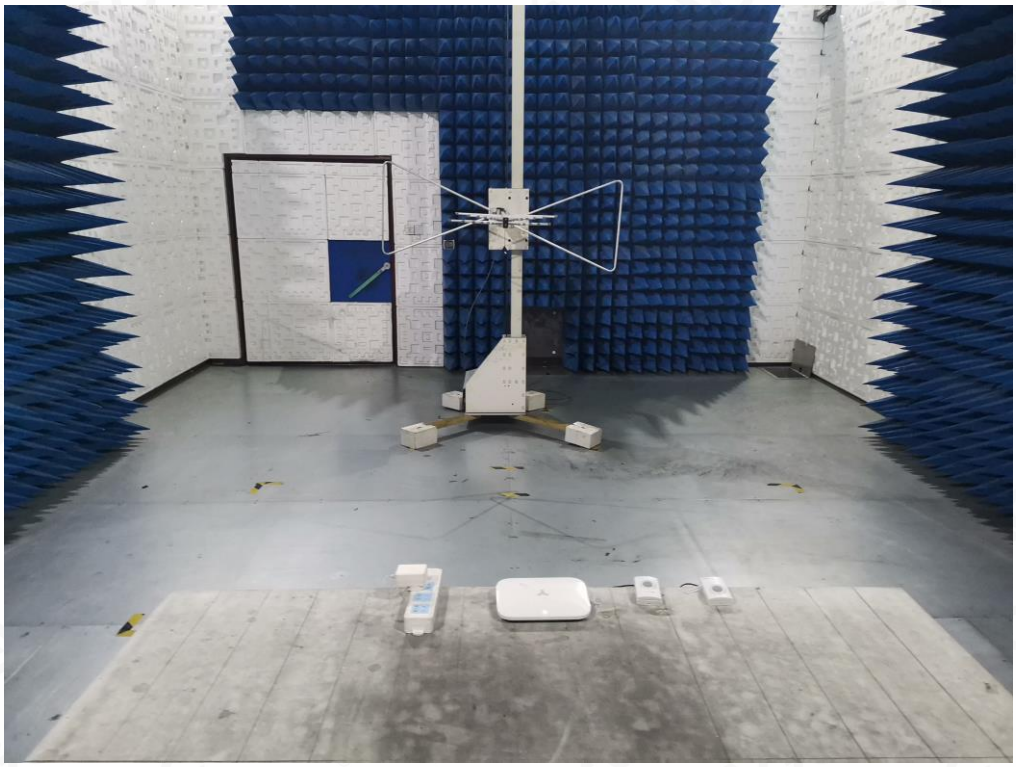
2020/1/4 0:02

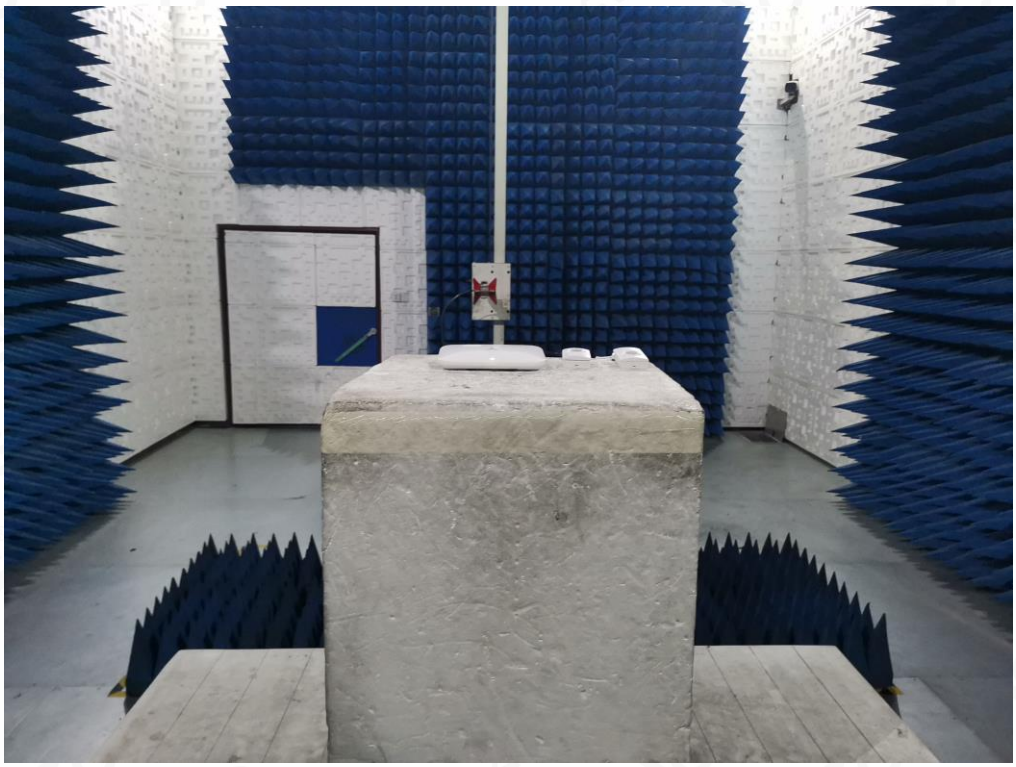
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.406000	21.00	11.0	48	26.7	AV	N	FLO
27.830000	23.00	12.5	50	27.0	AV	N	FLO
28.506000	32.00	12.6	50	18.0	AV	N	FLO
29.186000	30.20	12.6	50	19.8	AV	N	FLO
29.526000	31.40	12.6	50	18.6	AV	N	FLO
29.866000	27.70	12.6	50	22.3	AV	N	FLO

RESULT: PASS

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP





CONDUCTED EMISSION TEST SETUP

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to Attached file (Appendix I)

----END OF REPORT----