



Test Report No:
23C0650R-RFUSV08S-A

TEST REPORT

FCC Rules&Regulations

Product Name	Base Station
Brand Name	SimpliSafe
Model No.	SSBS3
FCC ID	U9K-BS3010
Applicant's Name / Address	SimpliSafe, Inc. 100 Summer Street, Suite 300, Boston, Massachusetts 02110, United States
Manufacturer's Name / Address	Cal-Comp Electronics (Thailand) Public Company Limited 138 Moo 4 Petchkasem Rd., Sarpang, Khao Yoi, Phetchaburi 76140, Thailand.
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.231 ANSI C63.10-2013
Verdict Summary	IN COMPLIANCE
Documented By	 Amelia Wu
Approved By	 Rueyyan Lin
Date of Receipt	Dec. 19, 2023
Date of Issue	Feb. 27, 2024
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Feb. 27, 2024

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
3	AC Power Line Conducted Emission	PASS	-
6	Field Strength of Fundamental Emissions	PASS	-
4	Emission Bandwidth	PASS	-
5	Transmit Time	PASS	-
7	Radiated Emission	PASS	-

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

Frequency	433.42 MHz
Channel Number	1
Type of Modulation	FSK
Serial Number	005629B4

Accessories Information					
No.	Equipment Name	Brand Name	Model No.	Rating	
1	Adapter	Simplisafe	GQ12-065160-FU	INPUT: AC 100-240V, 50/60Hz, 0.4A Max OUTPUT: 6.5V, 1.6A	
No.	Equipment Name	Brand Name	Model No.	Rating	Remark
2	Battery*4	FBTech	49.6AAP1300mAh	1300mAh, 1.20V	Internal of EUT

Antenna Information				
Ant.	Brand Name	Model No.	Type	Gain (dBi)
0	Simplisafe	SSBS3	Monopole	0

1.2. EUT Information

EUT Power Type	From Adapter / Battery
----------------	------------------------

1.3. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 414788 D01 v01r01

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
Test site number for address 1 includes HC-SR02. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
AC Conduction Emission	HC-SR02	Ling Chen	21.5 / 63	2023/12/29
RF Conducted Emission	HC-SR12	Max Chang	20 / 60	2024/01/22
Radiated Emission	HC-CB04	Ling Chen	19.5 / 58	2023/12/20

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test item	Uncertainty
AC Power Line Conducted Emission	± 2.34 dB
Field Strength of Fundamental Emissions	± 3.52 dB
Emission Bandwidth	± 282.55 Hz
Transmit Time	± 19.555 ms
Radiated Emission	± 3.52 dB below 1GHz ± 3.56 dB above 1GHz

1.6. List of Test Equipment

HC-SR02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	9kHz-30MHz, 4line/100A	2023/12/15	2024/12/14
EMI Test Receiver	R&S	ESR3	102608	9 kHz - 3.6 GHz	2023/09/19	2024/09/18
Two-Line V-Network	R&S	ENV216	100096	9kHz-30MHz	2023/06/02	2024/06/01
Coaxial Cable(9 m)	Harbour	RG-400	HC-SR02	9 kHz-2500 MHz	2023/08/04	2024/08/03
EMI Testing System	AUDIX	e3 210616 dekra V9	HC-SR02	N/A	N/A	N/A

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	0.3-40 GHz	2023/10/25	2024/10/24
Pulse Power Sensor	Anritsu	MA2411B	1531043	0.3-40 GHz	2023/10/25	2024/10/24
Pulse Power Sensor	Anritsu	MA2411B	1531044	0.3-40 GHz	2023/10/25	2024/10/24
Signal and Spectrum Analyzer	R&S	FSVA40	101869	10Hz-40GHz	2023/07/03	2024/07/02

HC-CB04

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	10 Hz-40 GHz	2023/10/03	2024/10/02
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1209	30 MHz-2 GHz	2023/06/13	2024/06/12
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211212A18EN	1G-18GHz	2023/11/17	2024/11/16
Horn Antenna	Schwarzbeck	BBHA 9170	203	18G-40GHz	2023/02/13	2024/02/12
Pre-Amplifier	EMCI	EMC01820I	980364	30M-8 GHz,20 dB	2023/06/06	2024/06/05
Pre-Amplifier	EMEC	EM01G18GA	060835	1-18 GHz,50 dB	2023/07/24	2024/07/23
Pre-Amplifier	DEKRA	AP-400C	201801231	18G-40 GHz,48 dB	2023/10/03	2024/10/02
EMI Test Receiver	R&S	ESR7	102260	10 Hz-7 GHz	2023/11/27	2024/11/26
Magnetic Loop Antenna	Teseq	HLA 6121	44287	0.01-30 MHz	2023/10/13	2024/10/12
Coaxial Cable(11m)	Suhner	SF102_SF104	HC-CB04	30M-18 GHz	2023/08/08	2024/08/07
Coaxial Cable(3m)	Suhner,Rosnol	SF102_UP0264	HC-CB04-1	18G-40 GHz	2023/08/14	2024/08/13
Radiated Software	AUDIX	e3 V9	HC-CB04_1	N/A	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	Repeated Transmit
Supply Voltage / Frequency	120V / 60 Hz
RF HW Version	PCA-10099-00:A
FW Version	2.14.13.99
FW Hash	dba8442
Center Frequency	433.42 MHz
PA Power level	FW Default: Decimal 47 / Hex 0x2F CLI Modification: Decimal 71 / Hex 0x47
PA Mode	Hex 0x19
PA Bias Clock Duty	Hex 0xC2
Frequency Deviation	13 kHz
Data Rate	4.8 kbps
Device's Maximum Packet Type	camera_sync_resp_V16_t
Device's Maximum Packet Length (bytes) / (ms)	377B / ~600 ms
Action During Testing	CLI command: rf send-long 126 1 1000

EUT Operational Condition	Manual Activation
Supply Voltage / Frequency	120V / 60 Hz
FW Version	2.14.13.99
FW Hash	dba8442
Center Frequency	433.42 MHz
PA Power level	FW Default: Decimal 47 / Hex 0x2F CLI Modification: Decimal 71 / Hex 0x47
PA Mode	Hex 0x19
PA Bias Clock Duty	Hex 0xC2
Frequency Deviation	13 kHz
Data Rate	4.8 kbps
Device's Maximum Packet Type	camera_sync_resp_V16_t
Device's Maximum Packet Length (bytes) / (ms)	377B / ~600ms
Action During Testing	Follow manual to setup

2.2. The Worst Case Measurement Configuration

Tests Item	AC Power Line Conducted Emission
Test Condition	AC power line conducted measurement for line and neutral
Operating Mode	Repeated Transmit

Tests Item	Emission Bandwidth
Test Condition	Conducted measurement at transmit chains
Operating Mode	Repeated Transmit

Tests Item	Transmit Time
Test Condition	Conducted measurement at transmit chains
Operating Mode	Repeated Transmit

Tests Item	Field Strength of Fundamental Emissions Radiated Emission
Test Condition	Radiated measurement
Operating Mode < 1GHz	Repeated Transmit
Operating Mode > 1GHz	Repeated Transmit

Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode < 1GHz	Repeated Transmit
1	WWAN LTE Cat-M1 + WiFi 2.4 GHz + 433.42 MHz
Refer to Appendix F for Radiated Emission Co-location.	

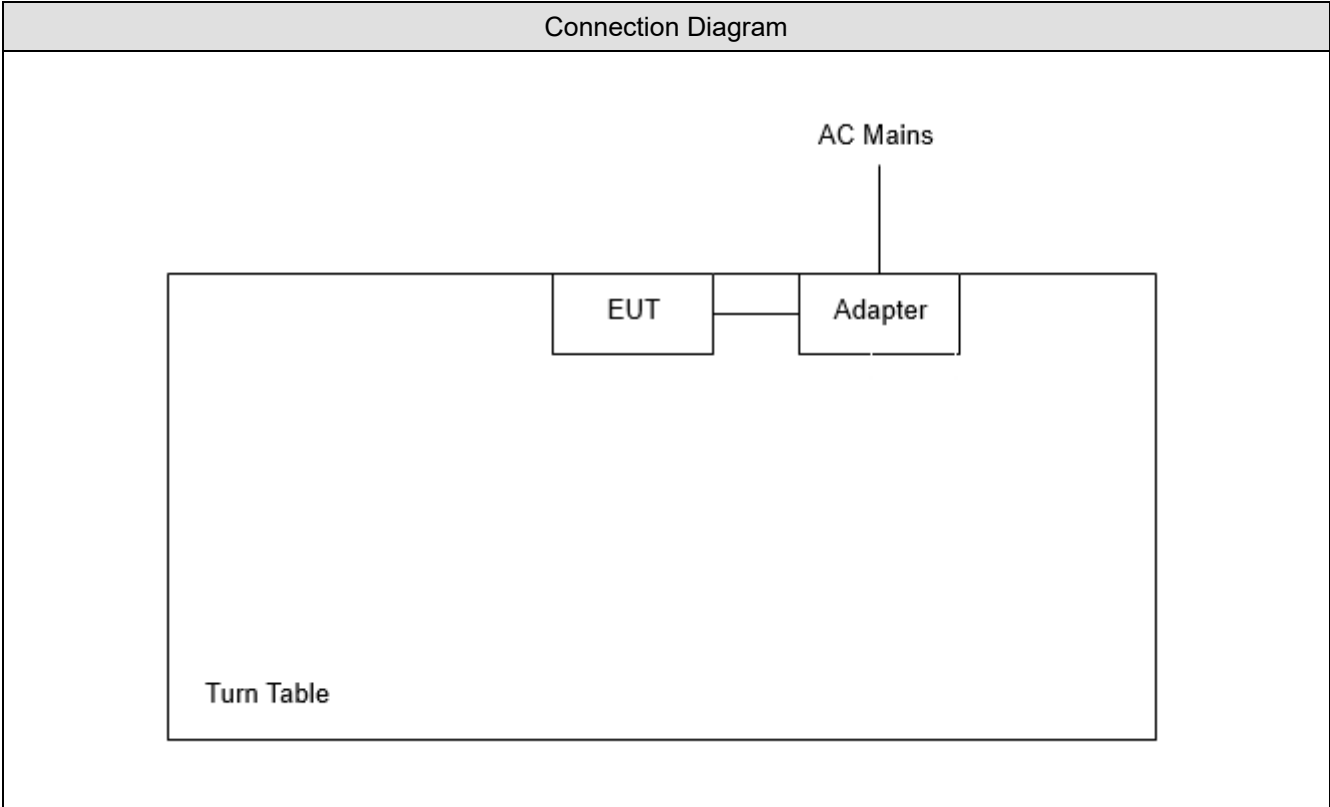
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	Repeated Transmit
1	WWAN LTE Cat-M1 + WiFi 2.4 GHz + 433.42 MHz
Refer to DEKRA Test Report No.: 23C0650R-RFUSV17S-A for Co-location RF Exposure Evaluation	

Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.3. Tested System Details

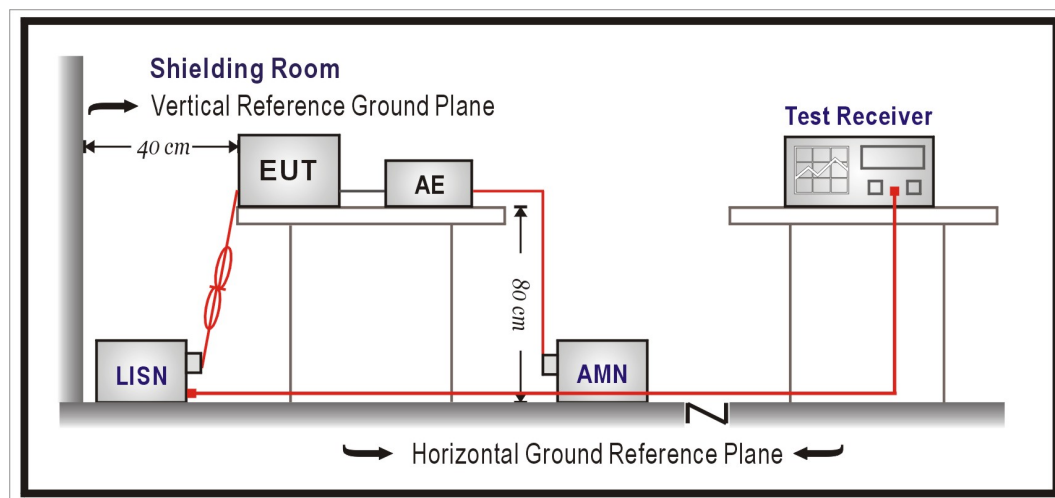
N/A

2.4. Configuration of tested System



3. AC Power Line Conducted Emission

3.1. Test Setup



3.2. Test Limit

Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

3.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50 ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.

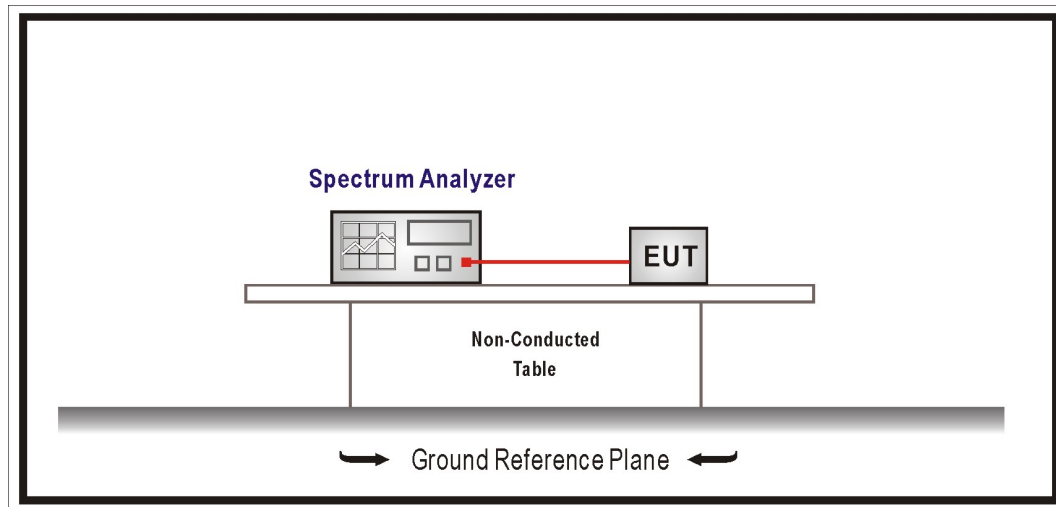
Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

3.4. Test Result of AC Power Line Conducted Emission

Refer as Appendix A

4. Emission Bandwidth

4.1. Test Setup



4.2. Test Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz.

For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.

Bandwidth is determined at the points 20 dB down from the modulated carrier.

4.3. Test Procedures

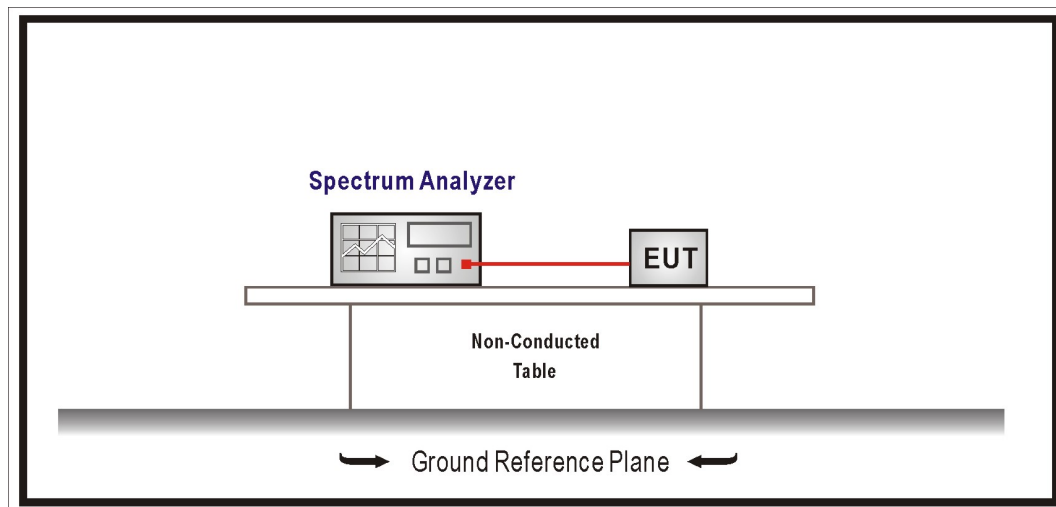
The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.

4.4. Test Result of Emission Bandwidth

Refer as Appendix B

5. Transmit Time

5.1. Test Setup



5.2. Test Limit

- ☒ Manually $\leq 5s$
- ☐ Automatically $\leq 5s$
- ☐ Periodic transmissions $\leq 2s$ in one hour
- ☐ Non-Periodic transmissions but security or safety applications

5.3. Test Procedures

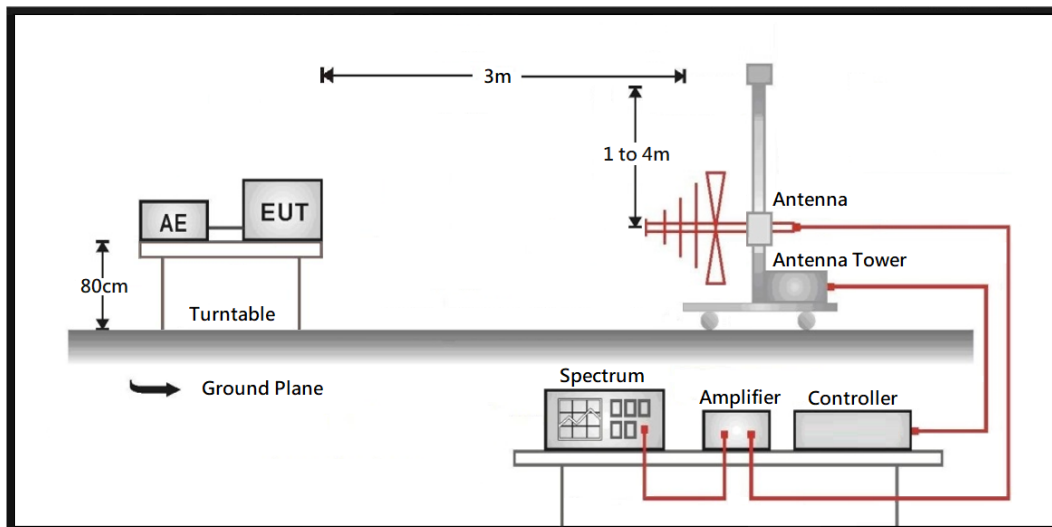
1. The transmitter output (antenna port) was connected to the spectrum analyzer
2. Set RBW of spectrum analyzer to 100kHz and VBW to 100kHz.
3. Use video trigger to monitor at least one full pulse.
4. Sweep Time is more than once pulse time.
5. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
6. Measure the maximum periodic transmissions time of the EUT.

5.4. Test Result of Transmit Time

Refer as Appendix C

6. Field Strength of Fundamental Emissions

6.1. Test Setup



6.2. Test Limit

Fundamental and Spurious Emissions Limit				
Frequency (MHz)	Field Strength of fundamental		Field Strength of spurious emissions	
	uV/m	dBuV/m	uV/m	dBuV/m
40.66 – 40.70	2250	67.04	225	47.04
70 – 130	1250	61.94	125	41.94
130 - 174	1250 - 3750	61.94 – 71.48	125 – 375	41.94 – 51.48
174 – 260	3750	71.48	375	51.48
260 – 470	3750 – 12500	71.48 – 81.94	375 – 1250	51.48 – 61.94
Above 470	12500	81.94	1250	61.94

Remarks:

1. Linear interpolations.
2. The above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.
3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

6.3. Test Procedure

1. The EUT was placed on the top of the turntable 0.8 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. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

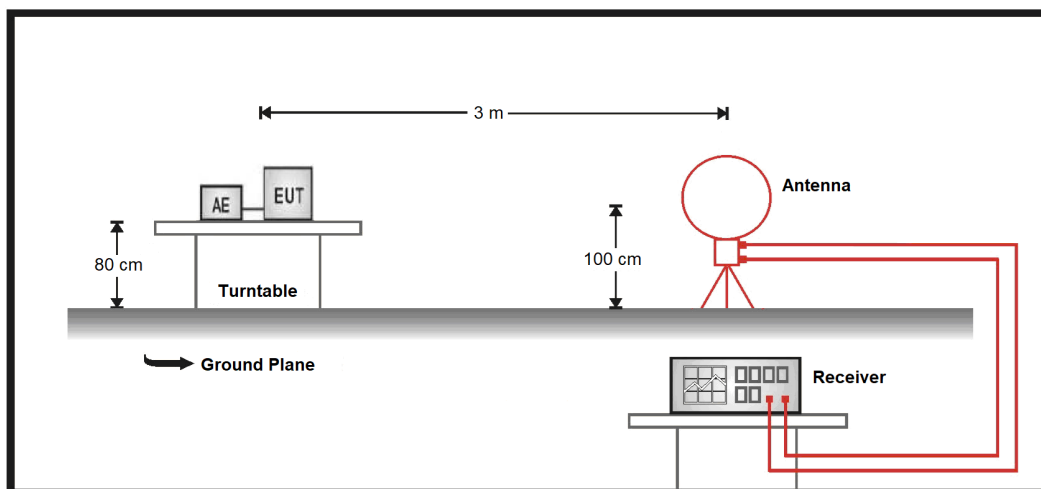
6.4. Test Result of Field Strength of Fundamental Emissions

Refer as Appendix D

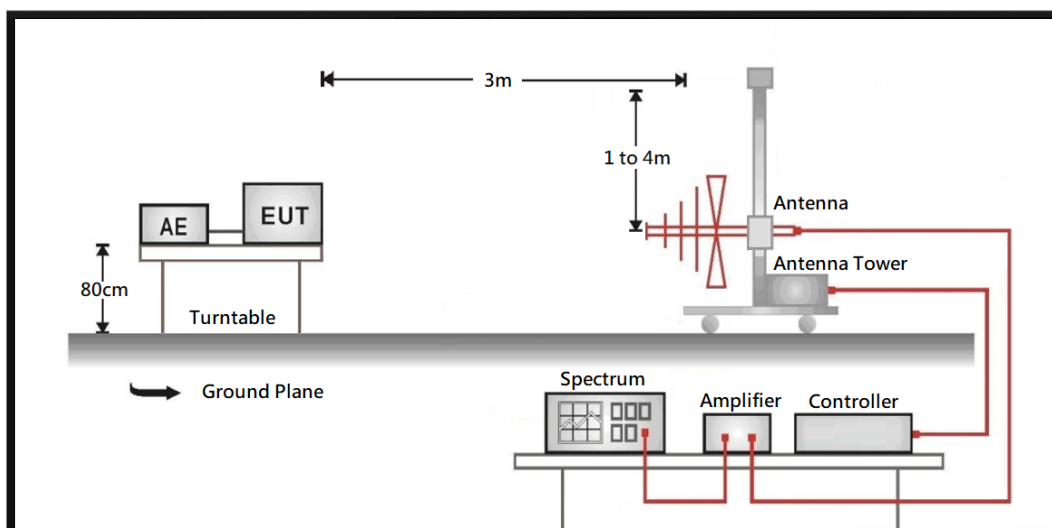
7. Radiated Emission

7.1. Test Setup

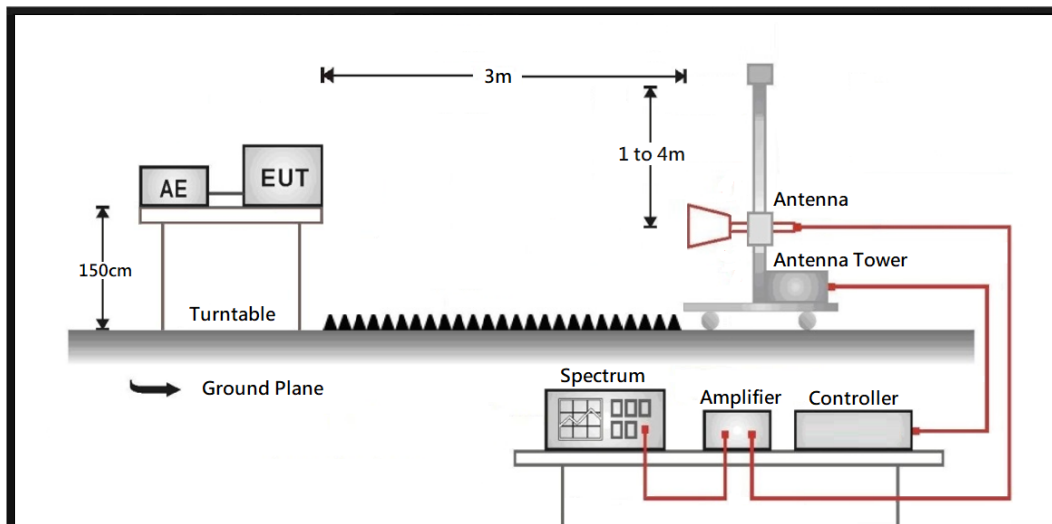
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



7.2. Test Limit

Fundamental and Spurious Emissions Limit				
Frequency (MHz)	Field Strength of fundamental		Field Strength of spurious emissions	
	uV/m	dBuV/m	uV/m	dBuV/m
40.66 – 40.70	2250	67.04	225	47.04
70 – 130	1250	61.94	125	41.94
130 - 174	1250 - 3750	61.94 – 71.48	125 – 375	41.94 – 51.48
174 – 260	3750	71.48	375	51.48
260 – 470	3750 – 12500	71.48 – 81.94	375 – 1250	51.48 – 61.94
Above 470	12500	81.94	1250	61.94

Remarks:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV).
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. E field strength (dBuV/m) = 20 log E field strength (uV/m).
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

7.3. Test Procedure

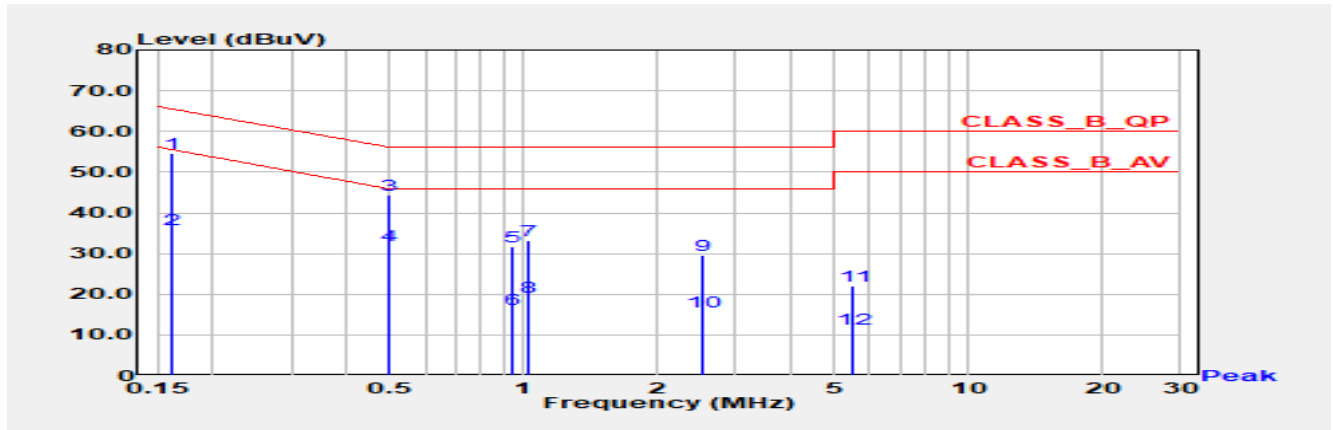
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated 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. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement. On any frequency or frequencies form 9kHz(inclde The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

7.4. Test Result of Radiated Emission

Refer as Appendix E

Appendix A. Test Result of AC Power Line Conducted Emission

Test Mode	Transmit	Phase	Line
Test Condition	433.42 MHz		

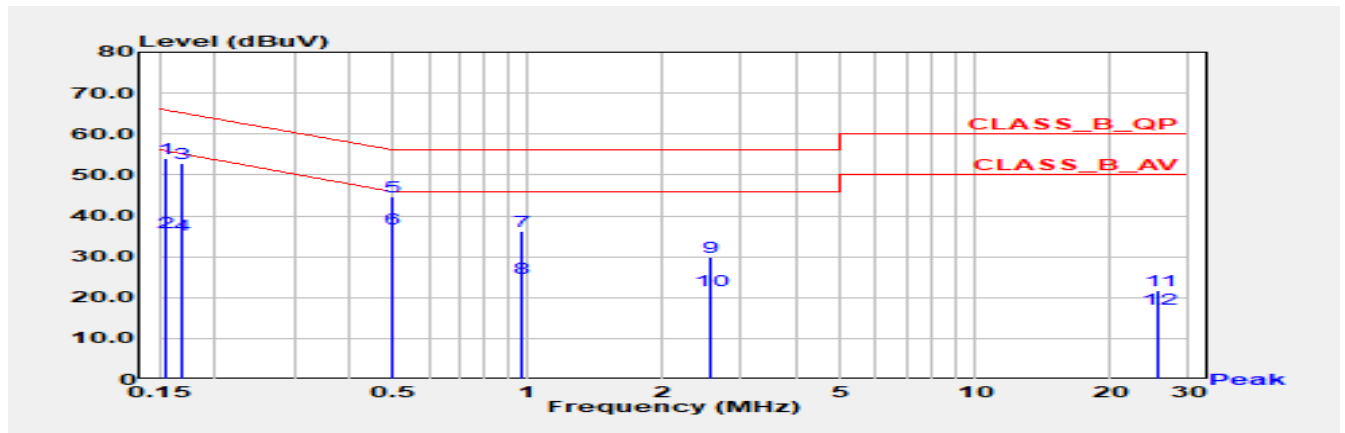


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.161	54.56	65.40	-10.84	44.94	9.62	QP
2	0.161	35.80	55.40	-19.60	26.18	9.62	AV
3	0.496	44.24	56.06	-11.82	34.59	9.65	QP
4	0.496	31.97	46.06	-14.09	22.32	9.65	AV
5	0.944	31.70	56.00	-24.30	22.01	9.69	QP
6	0.944	16.17	46.00	-29.83	6.47	9.69	AV
7	1.018	33.13	56.00	-22.87	23.43	9.70	QP
8	1.018	19.23	46.00	-26.77	9.52	9.70	AV
9	2.519	29.62	56.00	-26.38	19.84	9.77	QP
10	2.519	15.59	46.00	-30.41	5.82	9.77	AV
11	5.505	22.18	60.00	-37.82	12.26	9.91	QP
12	5.505	11.42	50.00	-38.58	1.50	9.91	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Test Mode	Transmit	Phase	Neutral
Test Condition	433.42 MHz		



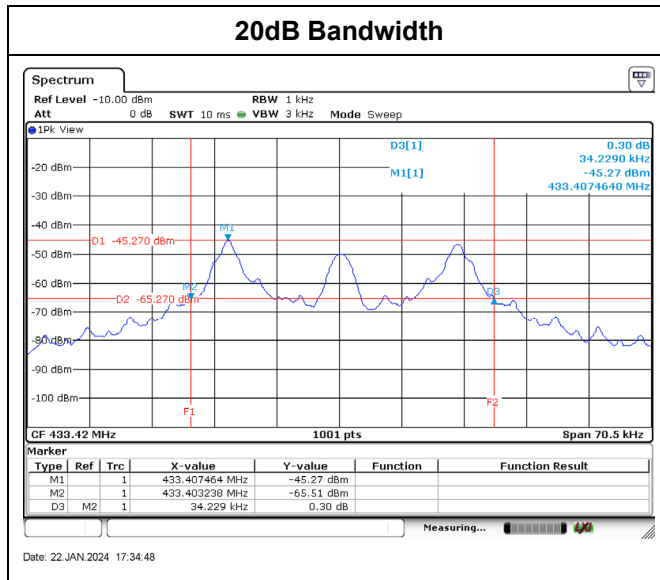
No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.154	54.05	65.75	-11.70	44.44	9.62	QP
2	0.154	35.83	55.75	-19.92	26.21	9.62	AV
3	0.168	52.75	65.06	-12.31	43.13	9.62	QP
4	0.168	35.36	55.06	-19.69	25.75	9.62	AV
5	0.499	44.60	56.02	-11.42	34.96	9.64	QP
*6	0.499	36.82	46.02	-9.20	27.17	9.64	AV
7	0.967	36.32	56.00	-19.68	26.63	9.70	QP
8	0.967	24.87	46.00	-21.13	15.18	9.70	AV
9	2.555	29.84	56.00	-26.16	20.06	9.78	QP
10	2.555	21.74	46.00	-24.26	11.96	9.78	AV
11	25.709	21.63	60.00	-38.37	10.91	10.72	QP
12	25.709	17.27	50.00	-32.73	6.55	10.72	AV

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

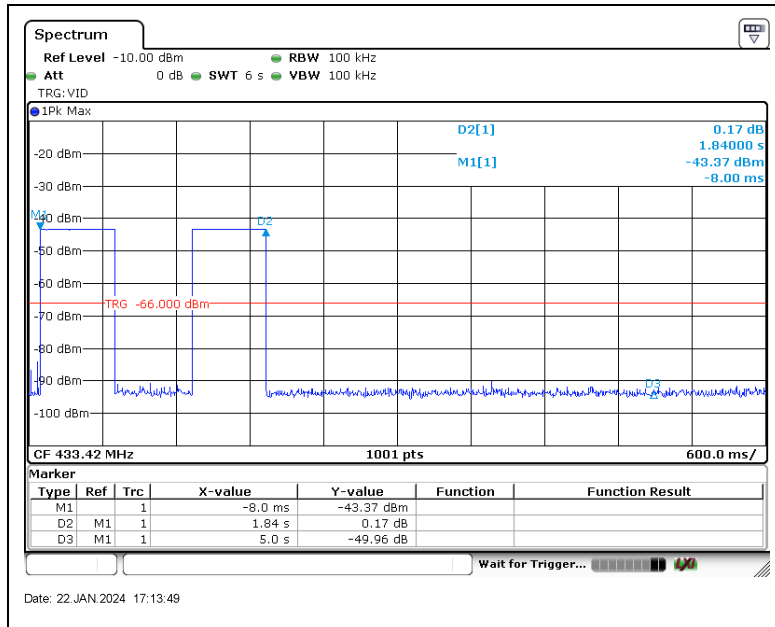
Appendix B. Test Result of Emission Bandwidth

Frequency (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
433.42	0.0342	1.0835



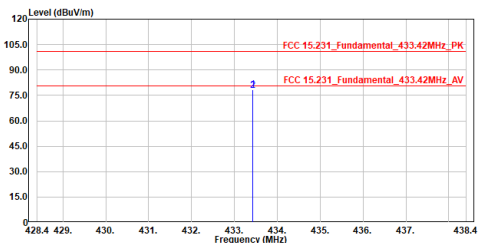
Appendix C. Test Result of Transmit Time

Frequency (MHz)	Measure Value (s)	Limit (s)
433.42	1.840	≤ 5



Appendix D. Test Result of Field Strength of Fundamental Emissions

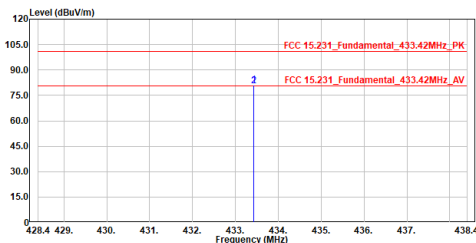
Site :HC-CB04
Condition :3m Horizontal
Mode :Fundamental_TX_433.42MHz
Test By :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	433.420	78.13	100.00	-22.67	76.93	1.20	Peak
2	433.420	77.68	80.80	-3.12	76.48	1.20	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m Vertical
Mode :Fundamental_TX_433.42MHz
Test By :Ling



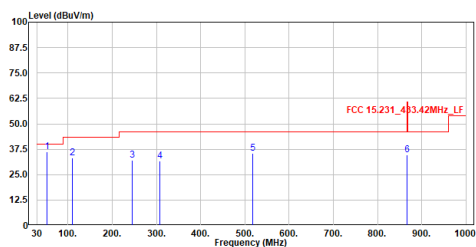
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	433.420	80.90	100.00	-19.90	79.70	1.20	Peak
2	433.420	80.40	80.80	-0.40	79.20	1.20	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Appendix E. Test Result of Radiated Emission

30 MHz ~ 1 GHz

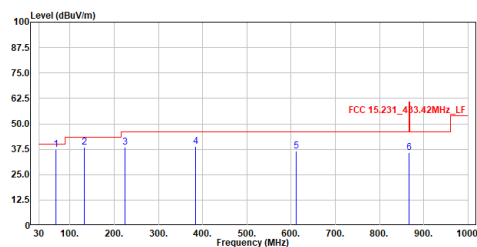
Site :HC-CB04
Condition :3m Horizontal
Mode :LF_TX_433.42MHz
Test By :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	52.650	36.25	40.00	-3.75	38.75	-2.50	QP
2	109.346	33.02	43.50	-10.48	39.13	-6.11	QP
3	244.952	32.05	46.00	-13.95	36.40	-4.35	QP
4	308.293	31.61	46.00	-14.39	33.83	-2.22	QP
5	517.280	35.38	46.00	-10.62	32.34	3.04	QP
6	866.840	34.75	60.80	-26.05	26.03	8.72	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m Vertical
Mode :LF_TX_433.42MHz
Test By :Ling

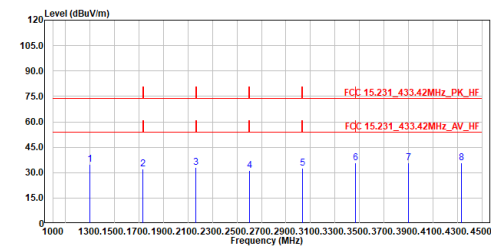


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	67.927	37.33	40.00	-2.67	41.15	-3.82	QP
2	132.093	38.49	43.50	-5.01	42.55	-4.06	QP
3	224.728	38.57	46.00	-7.43	44.72	-6.15	QP
4	384.584	38.82	46.00	-7.18	39.04	-0.22	QP
5	610.788	36.51	46.00	-9.49	31.29	5.22	QP
6	866.840	35.72	60.80	-25.08	27.00	8.72	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Above 1 GHz

Site :HC-CB04
Condition :3m ,Horizontal
Mode :TX_433.42MHz
Test By :Ling

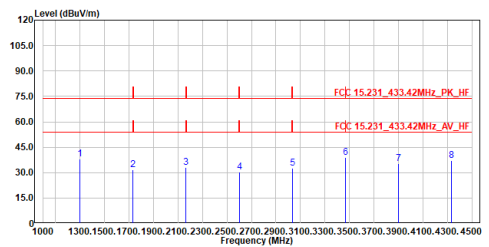


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	1300.260	34.94	74.00	-39.06	61.85	-26.91	Peak
2	1733.680	32.09	80.80	-48.71	57.81	-25.72	Peak
3	2167.100	33.02	80.80	-47.78	57.61	-24.59	Peak
4	2600.520	31.22	80.80	-49.58	54.88	-23.66	Peak
5	3033.940	32.65	80.80	-48.15	55.07	-22.42	Peak
6	3467.360	35.96	80.80	-44.84	57.54	-21.58	Peak
7	3900.780	35.75	74.00	-38.25	55.83	-20.08	Peak
8	4334.200	35.60	74.00	-38.40	54.59	-18.99	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB04
Condition :3m ,Vertical
Mode :TX_433.42MHz
Test By :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	1300.260	37.97	74.00	-36.03	64.88	-26.91	Peak
2	1733.680	31.68	80.80	-49.12	57.40	-25.72	Peak
3	2167.100	33.20	80.80	-47.60	57.79	-24.59	Peak
4	2600.520	30.24	80.80	-50.56	53.90	-23.66	Peak
5	3033.940	32.80	80.80	-48.00	55.22	-22.42	Peak
6	3467.360	38.86	80.80	-41.94	60.44	-21.58	Peak
7	3900.780	35.51	74.00	-38.49	55.59	-20.08	Peak
8	4334.200	37.27	74.00	-36.73	56.26	-18.99	Peak

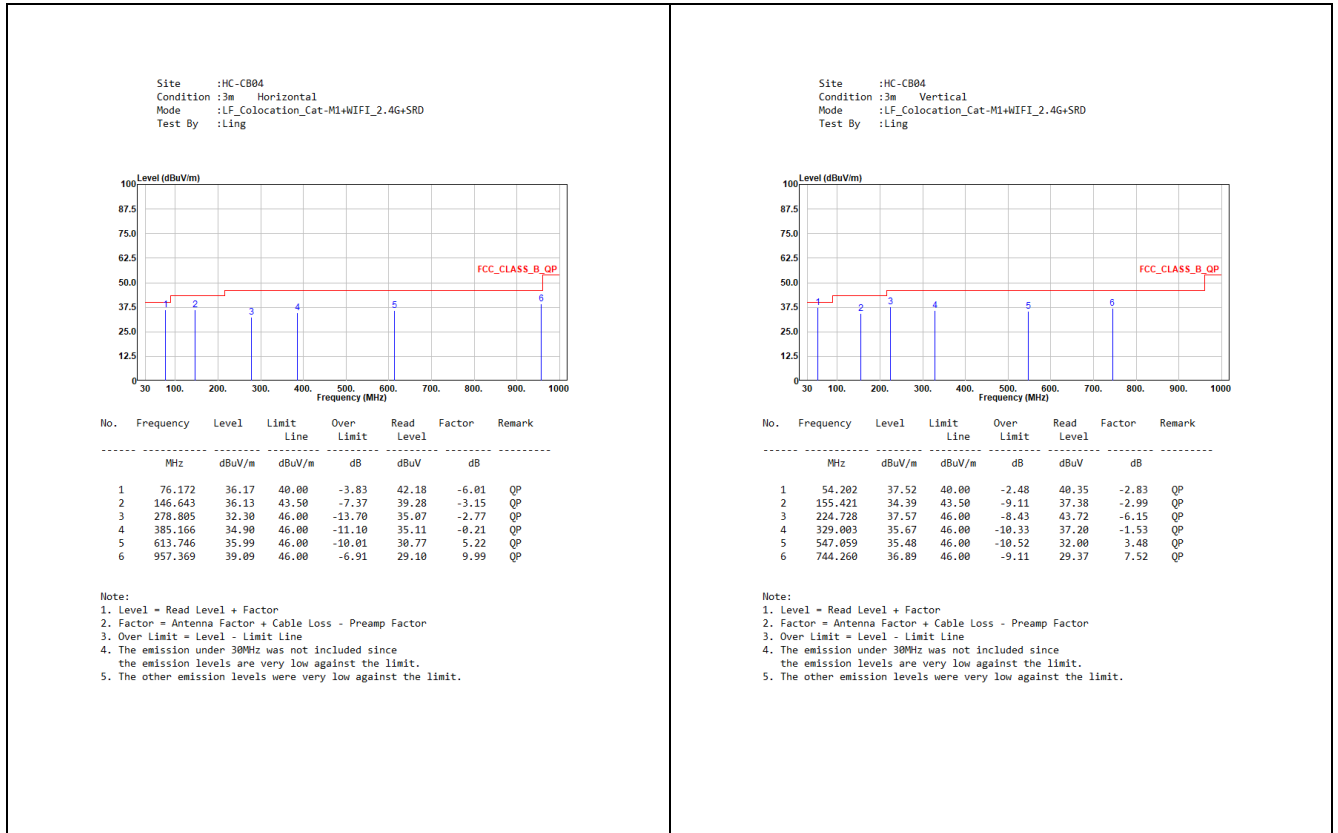
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Appendix F. Test Result of Radiated Emissions Co-location

WWAN LTE Cat-M1 + WiFi 2.4 GHz + 433.42 MHz

30 MHz ~ 1 GHz:



Above 1 GHz:

