



Test Report No:
2420263R-RFUSV01S-A

TEST REPORT

FCC Rules&Regulations

Product Name	Guardvision Outdoor
Brand Name	Verisure
Model No.	GWL-MD-PIR
FCC ID	2A93W-GWL-MD-PIR
Applicant's Name / Address	Verisure Sarl chemin Jean-Baptiste Vandelle 3 Versoix Switzerland 1290
Manufacturer's Name / Address	Verisure Sarl chemin Jean-Baptiste Vandelle 3 Versoix Switzerland 1290
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10-2013
Verdict Summary	IN COMPLIANCE
Documented By	<i>Amelia Wu</i> Amelia Wu
Approved By	<i>Rueyyan Lin</i> Rueyyan Lin
Date of Receipt	Feb. 20, 2024
Date of Issue	Apr. 12, 2024
Report Version	V1.0

INDEX

	page
Competences and Guarantees.....	4
General Conditions.....	4
Revision History.....	5
Summary of Test Result.....	6
Comments and Remarks.....	6
1. General Information.....	7
1.1. EUT Description.....	7
1.2. EUT Information.....	7
1.3. Testing Applied Standards.....	7
1.4. Testing Location Information.....	8
1.5. Measurement Uncertainty.....	8
1.6. List of Test Equipment.....	9
2. Test Configuration of EUT.....	10
2.1. Test Condition.....	10
2.2. Test Frequency Mode.....	10
2.3. Duty Cycle.....	10
2.4. The Worst Case Measurement Configuration.....	11
2.5. Tested System Details.....	12
2.6. Configuration of Tested System.....	12
3. Occupied Bandwidth & DTS Bandwidth.....	13
3.1. Test Setup.....	13
3.2. Test Limit.....	13
3.3. Test Procedures.....	13
3.4. Test Result of Occupied Bandwidth & DTS Bandwidth.....	13
4. Maximum Conducted Output Power.....	14
4.1. Test Setup.....	14
4.2. Test Limit.....	14
4.3. Test Procedures.....	14
4.4. Test Result of Maximum Conducted Output Power.....	14
5. Maximum Power Spectral Density.....	15
5.1. Test Setup.....	15
5.2. Test Limit.....	15
5.3. Test Procedures.....	15
5.4. Test Result of Maximum Power Spectral Density.....	15
6. Antenna Port Conducted Emission.....	16
6.1. Test Setup.....	16

6.2.	Test Limit	16
6.3.	Test Procedure	16
6.4.	Test Result of Antenna Port Conducted Emission	16
7.	Transmitter Radiated Spurious Emission	17
7.1.	Test Setup	17
7.2.	Test Limit	18
7.3.	Test Procedure	18
7.4.	Test Result of Transmitter Radiated Spurious Emission	18
Appendix A. Test Result of Occupied Bandwidth & DTS Bandwidth		
Appendix B. Test Result of Maximum Conducted Output Power		
Appendix C. Test Result of Maximum Power Spectral Density		
Appendix D. Test Result of Antenna Port Conducted Emission		
Appendix E. Test Result of Transmitter Radiated Spurious Emission		
Appendix F. Test Result of Radiated Emissions Co-location		
Appendix G. Test Setup Photograph		

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.	Apr. 12, 2024

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
-	AC Power Line Conducted Emission	N/A	Note
3	Occupied Bandwidth & DTS Bandwidth	PASS	-
4	Maximum Conducted Output Power	PASS	-
5	Maximum Power Spectral Density	PASS	-
6	Antenna Port Conducted Emission	PASS	-
7	Transmitter Radiated Spurious Emission	PASS	-

Note: The EUT was powered by DC voltage (AA Battery*6). It's not necessary to apply to AC Power Line Conducted Emission test.

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 Range	902 ~ 928 MHz
Operating Frequency	915.5 ~ 925.5 MHz
Channel Number	6 Channels
Mode	Sub-GHz
Type of Modulation	2-GFSK
Hardware Version	1A
Software Version	2.22.7

Antenna Information				
Ant.	Brand Name	Model No.	Type	Gain (dBi)
0	Arlo Technologies	PCB Printed SubGHZ antenna	PIFA	-1.5

Working Frequency of Each Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
7 / 100	915.5	1	917.5	2	918.5
3	919.5	4	924.5	5	925.5

1.2. EUT Information

EUT Power Type	From AA Battery*6			
EUT Function	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point

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 558074 D01 v05r02
- ◆ 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
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 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
RF Conducted Emission	HC-SR12	Scott Chang	18.5 / 52	2024/02/26
Radiated Emission	HC-CB04	Ling Chen	20.5~21.2 / 43~49	2024/02/26~2024/02/29

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
Occupied Bandwidth & DTS Bandwidth	± 282.55 Hz
Maximum Conducted Output Power	± 1.16 dB
Maximum Power Spectral Density	± 2.47 dB
Antenna Port Conducted Emission	± 2.47 dB
Transmitter Radiated Spurious Emission	± 3.52 dB below 1 GHz ± 3.56 dB above 1 GHz

1.6. List of Test Equipment

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 & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2023/07/03	2024/07/02

HC-CB04

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal and Spectrum Analyzer	R&S	FSVA40	101435	10 Hz-40 GHz	2023/05/29	2024/05/28
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	211211A18EN	1G-18GHz	2023/11/09	2024/11/08
Horn Antenna	Schwarzbeck	BBHA 9170	203	18G-40GHz	2024/02/02	2025/02/01
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	
Testing Voltage	DC 4.5V

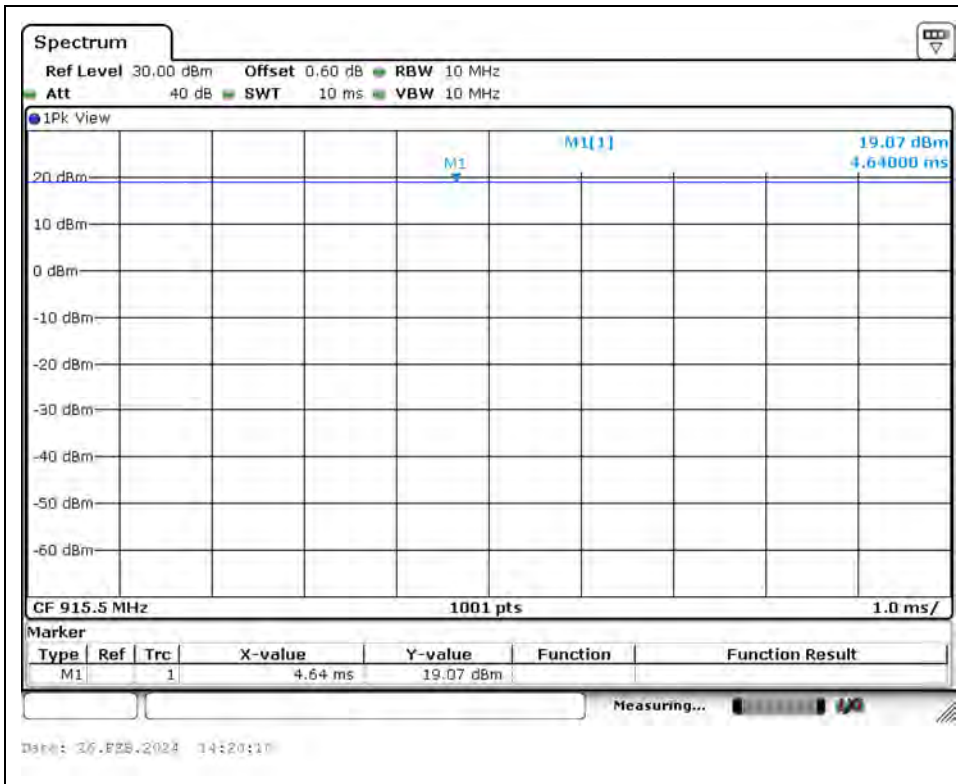
2.2. Test Frequency Mode

Test Software Version	TeraTerm v4.75
-----------------------	----------------

Modulation	Frequency (MHz)	Power Setting
2-GFSK	915.5	D0
	919.5	D0
	925.5	D0

2.3. Duty Cycle

Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
2-GFSK	--	--	100.00	0.00	0.010



2.4. The Worst Case Measurement Configuration

Tests Item	Occupied Bandwidth & DTS Bandwidth Maximum Conducted Output Power Maximum Power Spectral Density Antenna Port Conducted Emission
Test Condition	Conducted measurement at transmit chains

Tests Item	Transmitter Radiated Spurious Emission
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Transmit
Operating Mode > 1GHz	Transmit

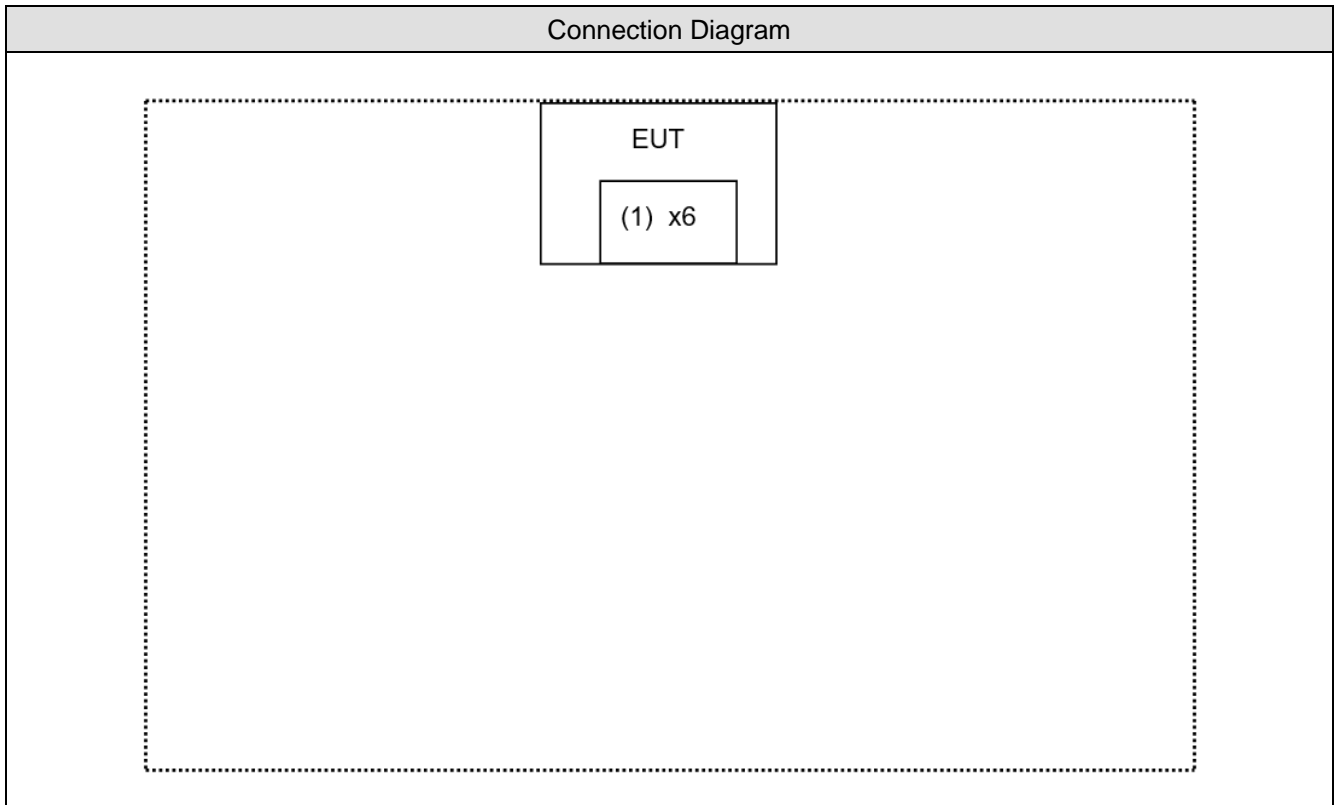
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Transmit
1	WiFi 2.4 GHz (802.11b, 2417 MHz) + Sub-GHz (915.5 MHz)
Refer to Appendix F for Radiated Emission Co-location.	

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

2.5. Tested System Details

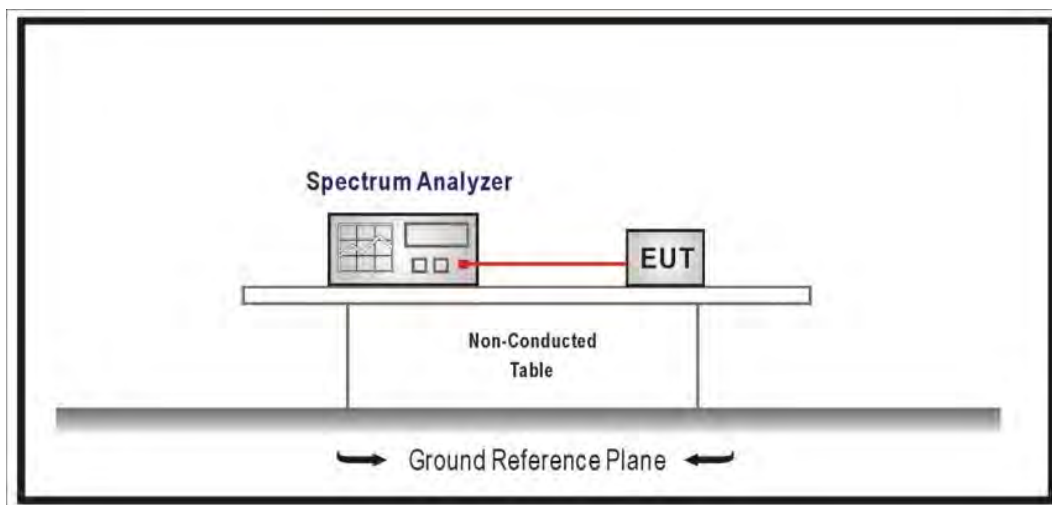
No.	Equipment	Brand Name	Model No.	Serial No.
1	AA Battery	Panasonic	LR6TTS/12B	N/A

2.6. Configuration of Tested System



3. Occupied Bandwidth & DTS Bandwidth

3.1. Test Setup



3.2. Test Limit

The 6 dB bandwidth: ≥ 0.50 MHz.

Occupied Bandwidth: N/A

3.3. Test Procedures

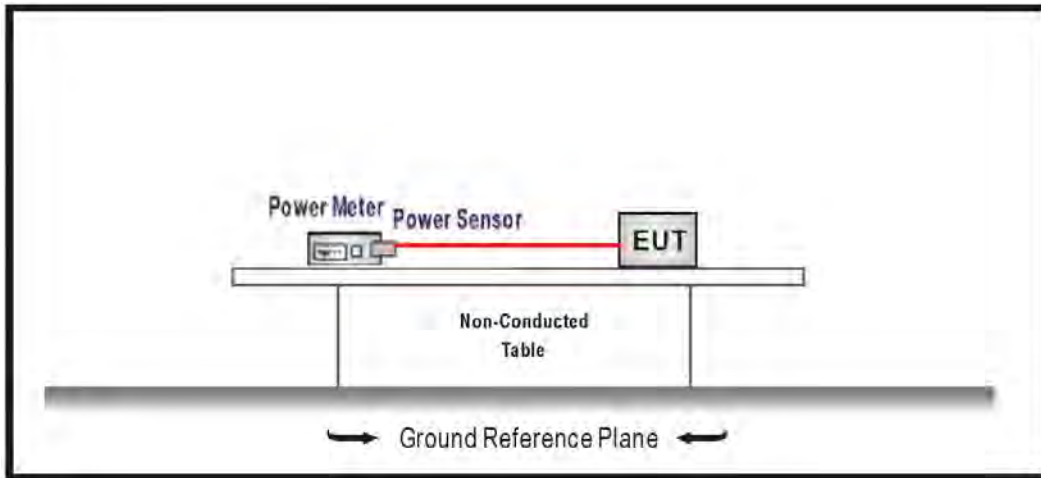
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

3.4. Test Result of Occupied Bandwidth & DTS Bandwidth

Refer as Appendix A

4. Maximum Conducted Output Power

4.1. Test Setup



4.2. Test Limit

The maximum conducted output power shall be less 30 dBm (1 Watt).

4.3. Test Procedures

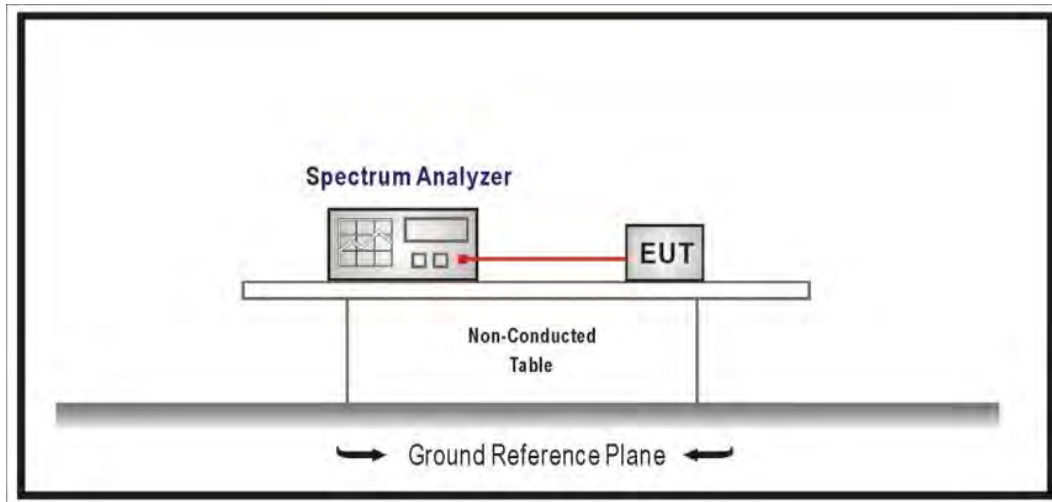
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

4.4. Test Result of Maximum Conducted Output Power

Refer as Appendix B

5. Maximum Power Spectral Density

5.1. Test Setup



5.2. Test Limit

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.3. Test Procedures

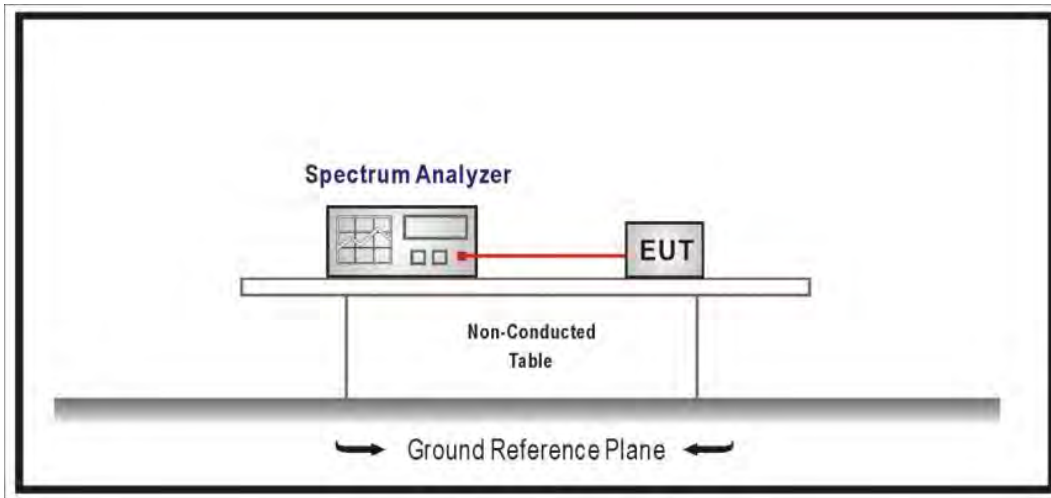
The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074.

5.4. Test Result of Maximum Power Spectral Density

Refer as Appendix C

6. Antenna Port Conducted Emission

6.1. Test Setup



6.2. Test Limit

RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30

Remarks:

- In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.
- If the transmitter complies with the conducted power limit based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

6.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

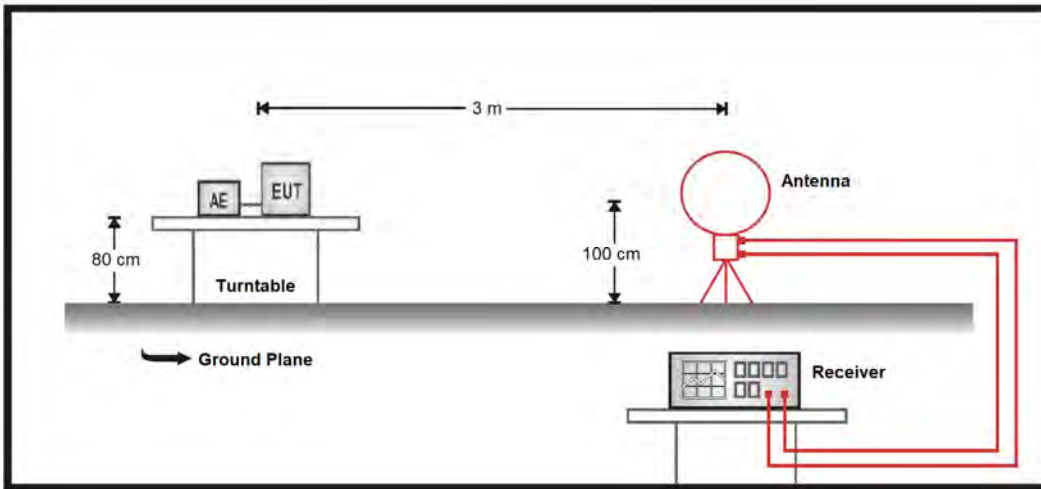
6.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix D

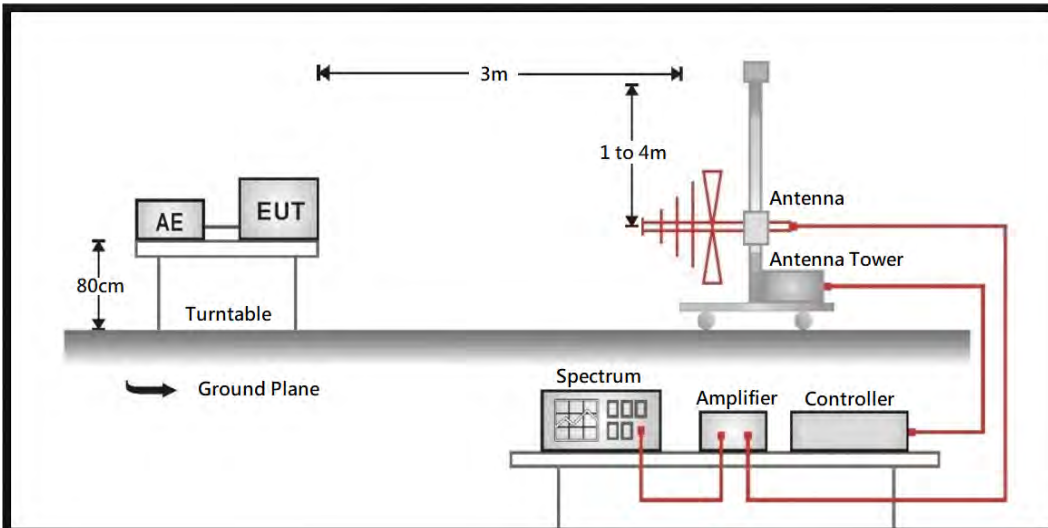
7. Transmitter Radiated Spurious Emission

7.1. Test Setup

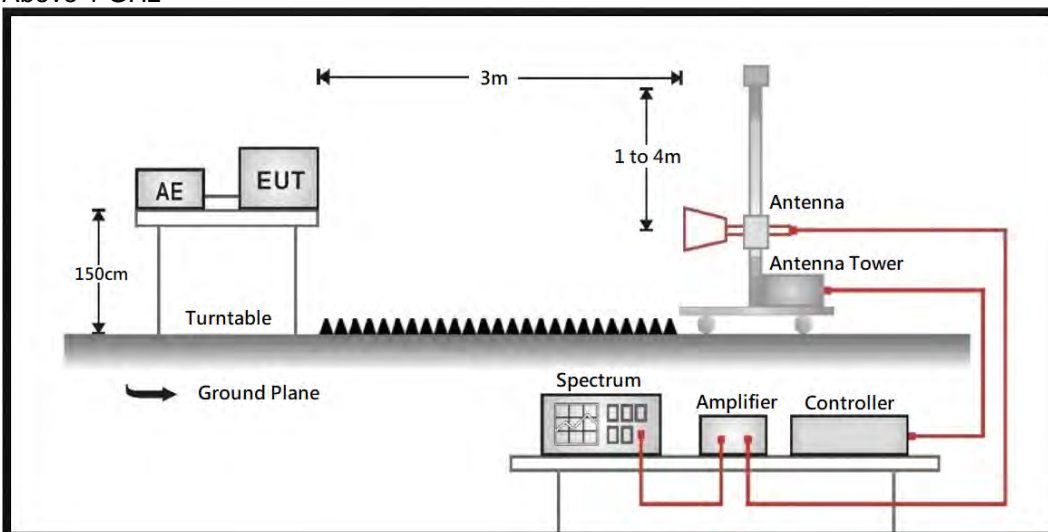
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



7.2. Test Limit

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. Field strength (dBuV/m) = 20 log 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

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. 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 from 9 kHz(include 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 Transmitter Radiated Spurious Emission

Refer as Appendix E

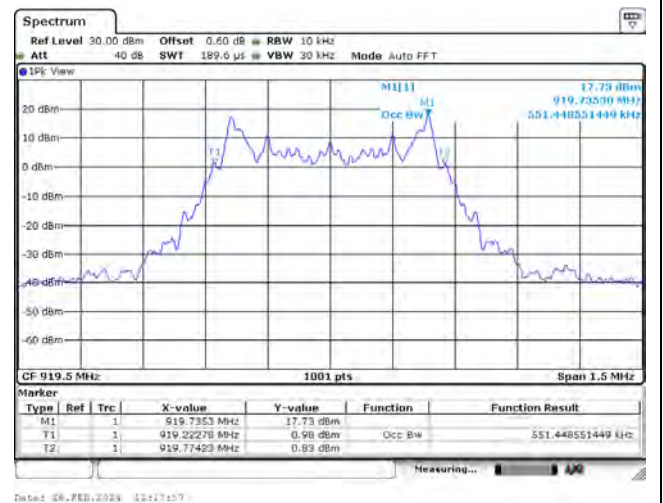
Appendix A.1 Test Result of Occupied Bandwidth

Modulation	Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (MHz)
2-GFSK	915.5	0.550	-
	919.5	0.551	-
	925.5	0.551	-

2-GFSK / 915.5 MHz



2-GFSK / 919.5 MHz



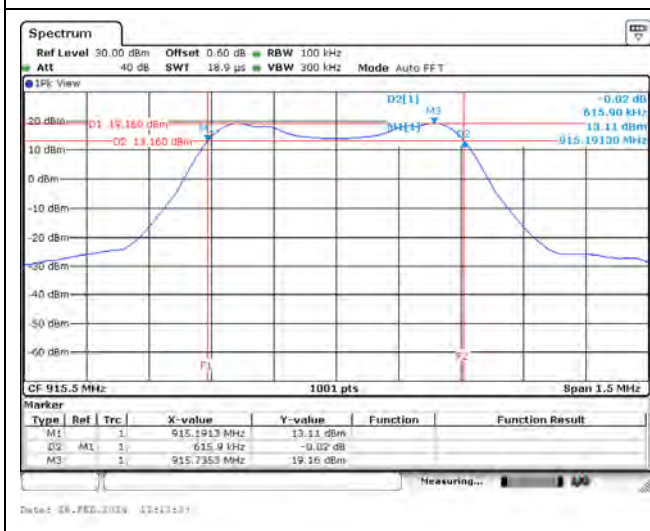
2-GFSK / 925.5 MHz



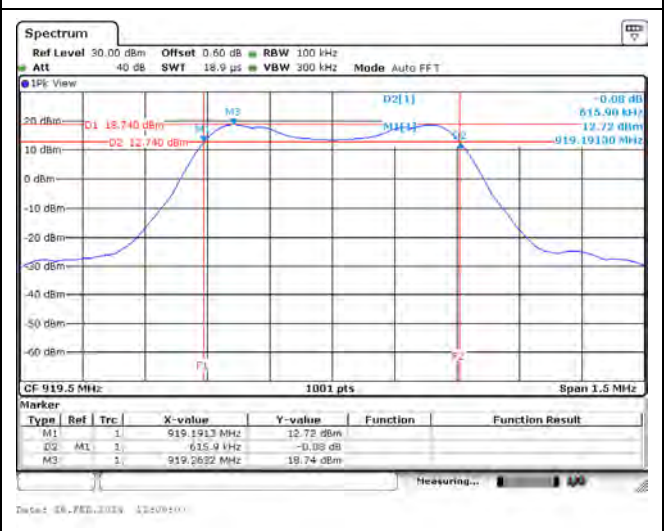
Appendix A.2 Test Result of DTS Bandwidth

Modulation	Frequency (MHz)	DTS Bandwidth (MHz)	Limit (MHz)
2-GFSK	915.5	0.616	0.50
	919.5	0.616	0.50
	925.5	0.616	0.50

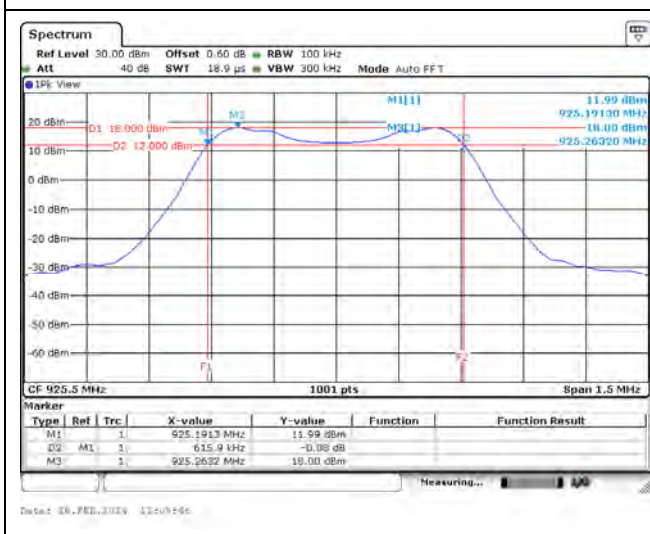
2-GFSK / 915.5 MHz



2-GFSK / 919.5 MHz



2-GFSK / 925.5 MHz



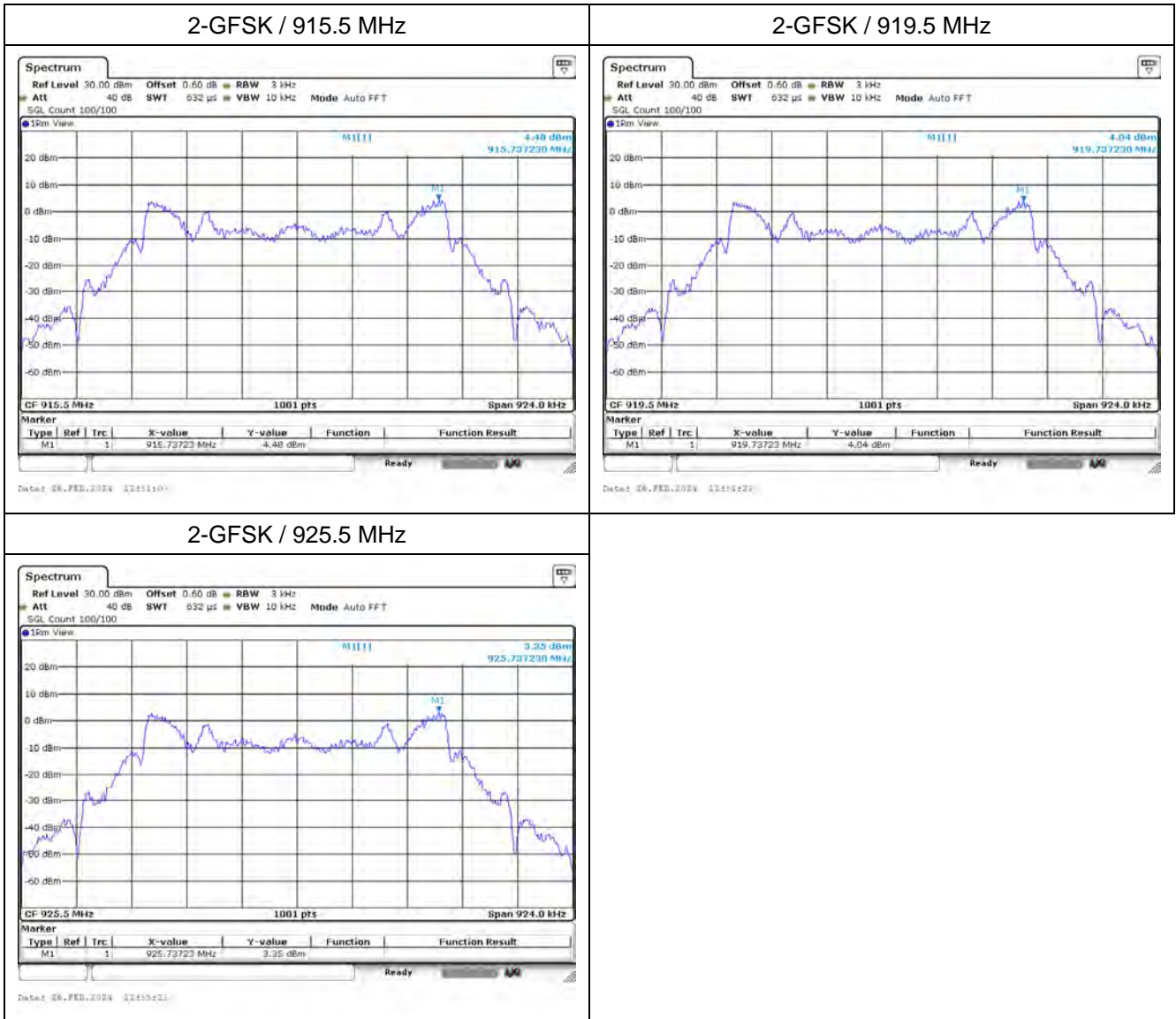
Appendix B. Test Result of Maximum Conducted Output Power

Modulation	Frequency (MHz)	Maximum Conducted Average Output Power (dBm)		Antenna Gain (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
		Ant. 0	Limit			
2-GFSK	915.5	19.11	30.00	-1.50	17.61	36.00
	919.5	18.72	30.00	-1.50	17.22	36.00
	925.5	18.00	30.00	-1.50	16.50	36.00

Appendix C. Test Result of Maximum Power Spectral Density

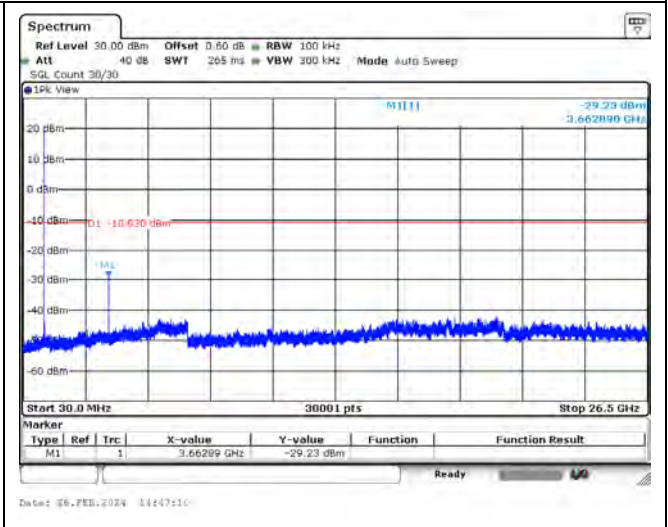
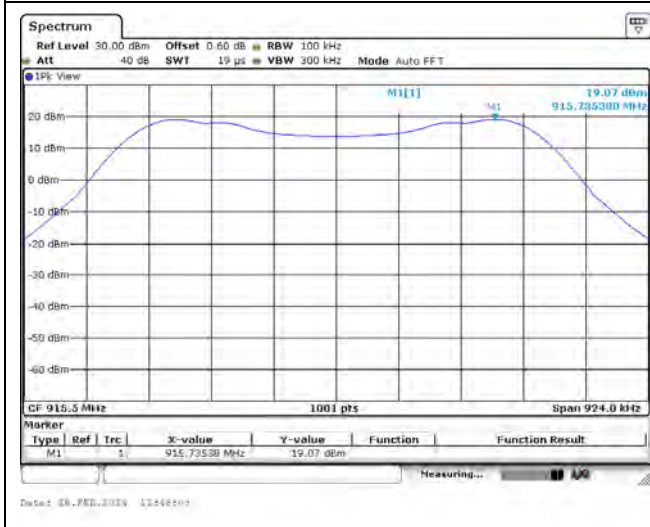
Modulation	Frequency (MHz)	Power Spectral Density (dBm / 3kHz)		Limit (dBm / 3kHz)
		Ant. 0	Total	
2-GFSK	915.5	4.480	4.480	8.00
	919.5	4.040	4.040	8.00
	925.5	3.350	3.350	8.00

Note: Total power spectral density = power spectral density + duty factor, and the duty factor refer to section 2.3.

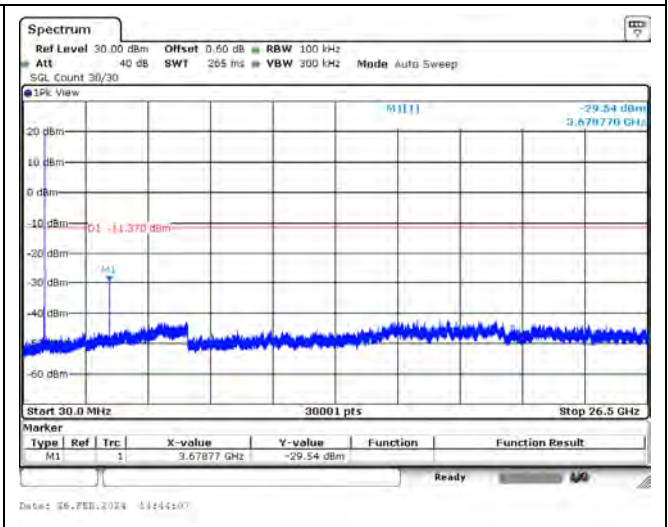
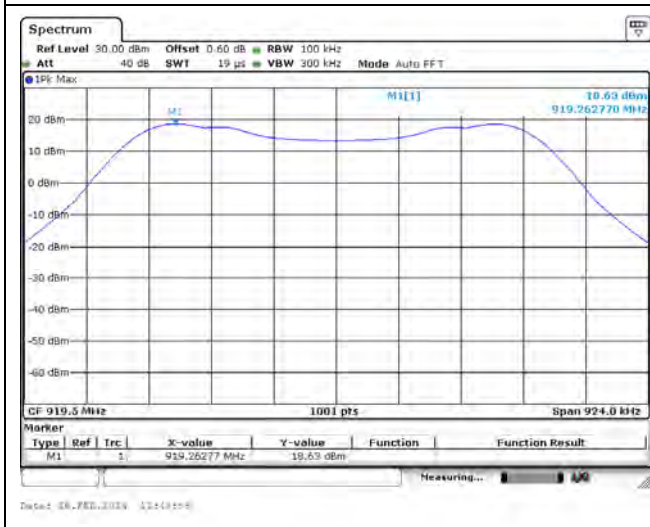


Appendix D. Test Result of Antenna Port Conducted Emission

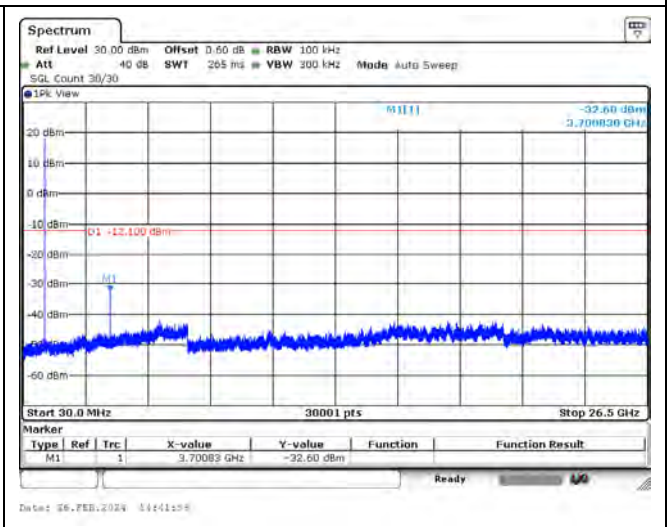
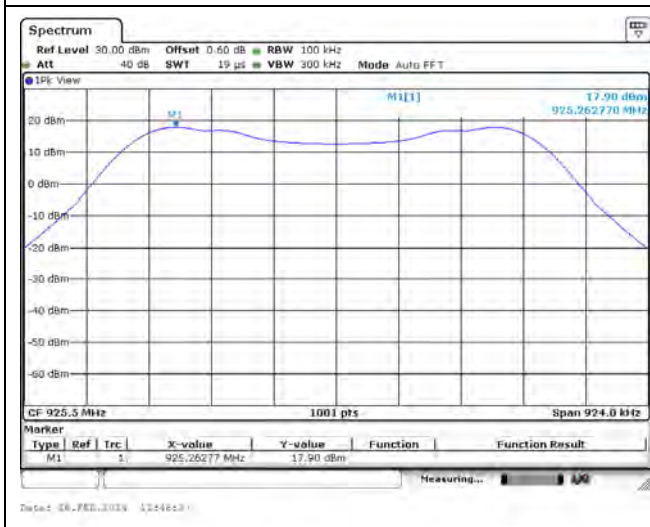
2-GFSK / 915.5 MHz



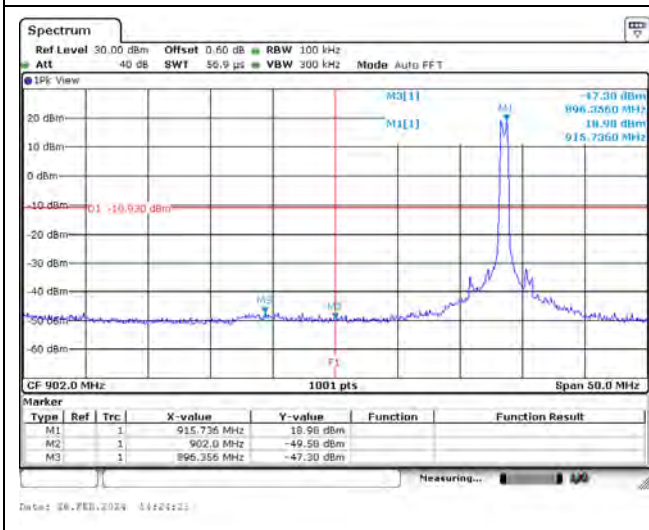
2-GFSK / 919.5 MHz



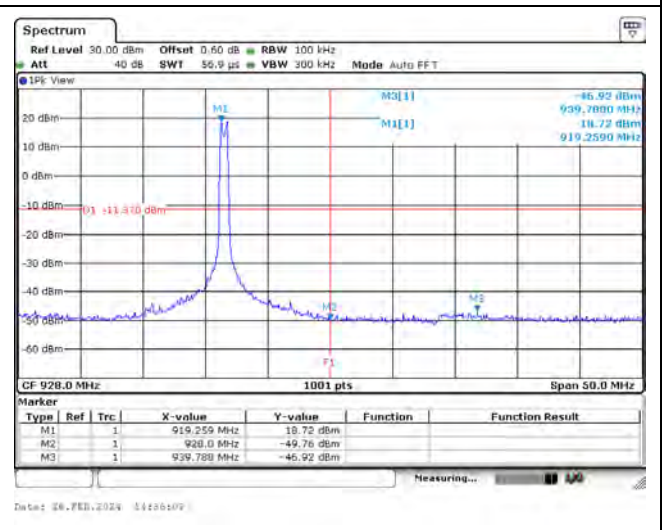
2-GFSK / 925.5 MHz



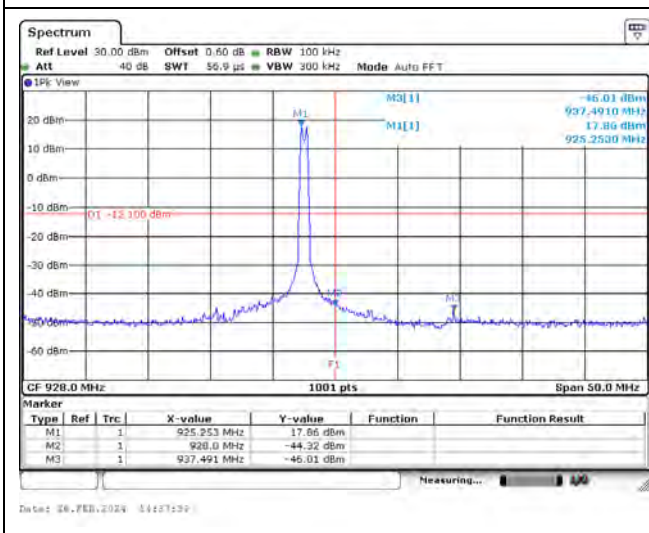
2-GFSK / 915.5 MHz (Band Edge)



2-GFSK / 919.5 MHz (Band Edge)

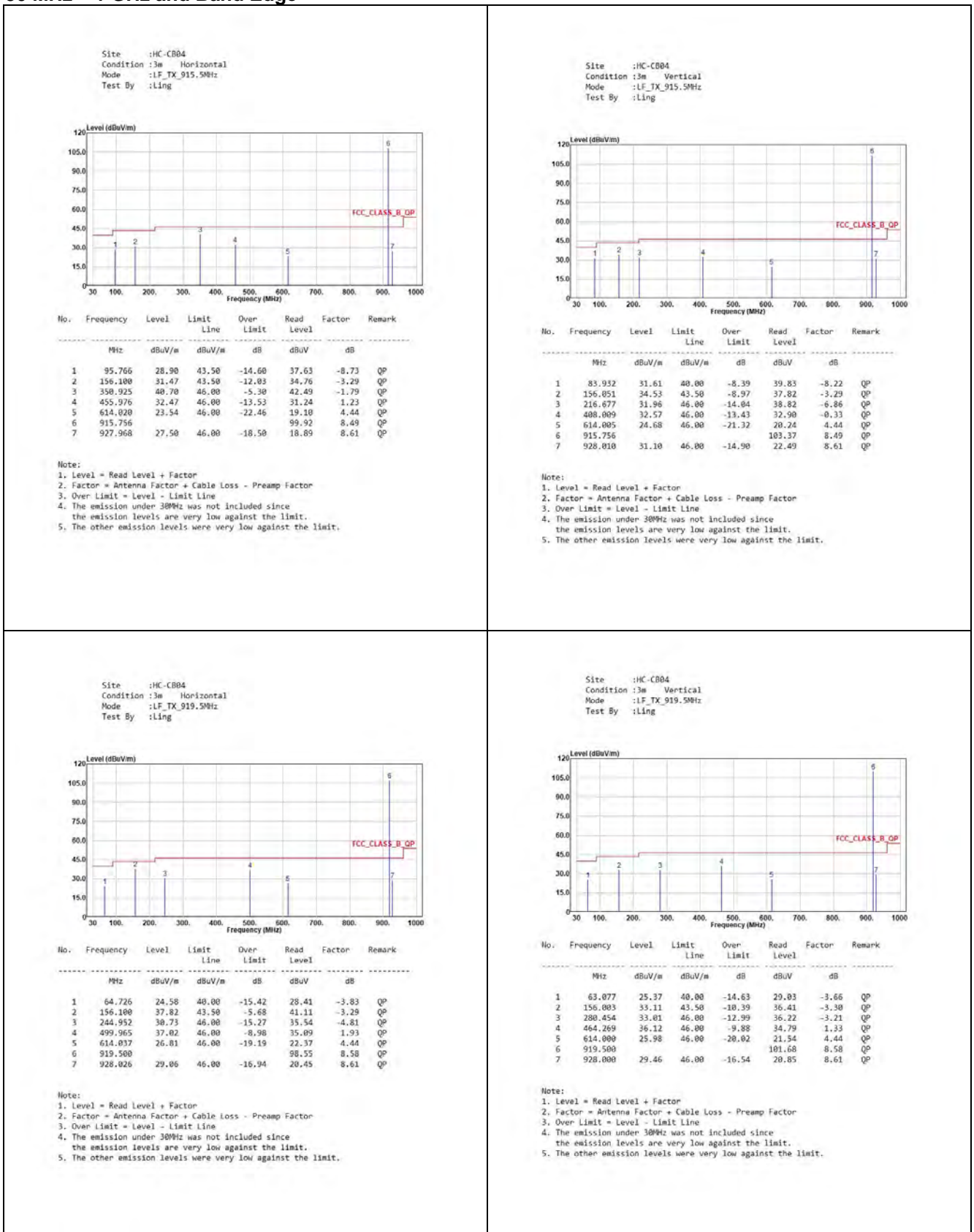


2-GFSK / 925.5 MHz (Band Edge)

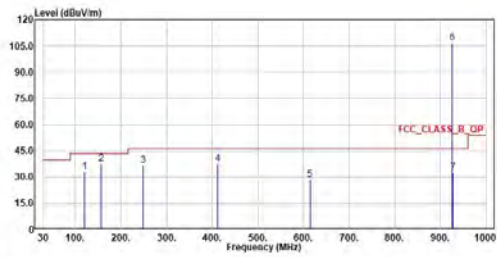


Appendix E. Test Result of Transmitter Radiated Spurious Emission

30 MHz ~ 1 GHz and Band Edge



Site :HC-CB04
 Condition :3m Horizontal
 Mode :LF_TX_925.5MHz
 Test By :Ling

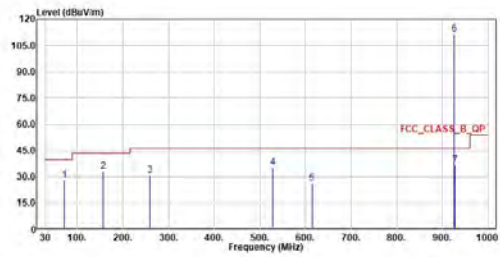


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	120.016	32.91	43.50	-10.59	38.26	-5.35	QP
2	156.197	37.38	43.50	-6.12	40.66	-3.28	QP
3	248.638	36.76	46.00	-9.24	41.49	-4.73	QP
4	411.986	37.62	46.00	-8.38	37.86	-0.24	QP
5	614.037	28.32	46.00	-17.68	23.88	4.44	QP
6	925.500				98.28	8.60	QP
7	928.000	32.52	46.00	-13.48	23.91	8.61	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_925.5MHz
 Test By :Ling



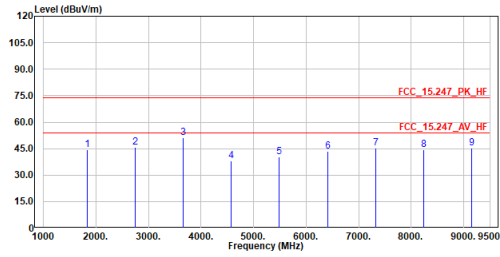
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	71.904	28.01	40.00	-11.99	33.16	-5.15	QP
2	156.585	32.99	43.50	-10.51	36.23	-3.24	QP
3	258.241	30.66	46.00	-15.34	35.13	-4.47	QP
4	527.998	35.34	46.00	-10.66	32.83	2.51	QP
5	614.030	26.13	46.00	-19.87	21.69	4.44	QP
6	925.500				102.67	8.60	QP
7	928.024	36.83	46.00	-9.17	28.22	8.61	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

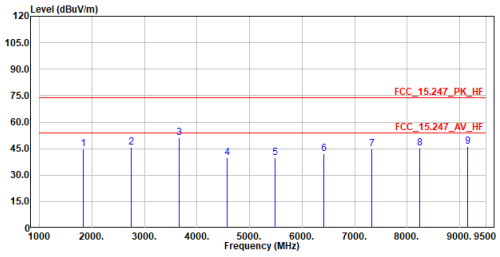
Site :HC-CB04
 Condition :3m ,Horizontal
 Mode :TX_915.5MHz
 Test By :Ling



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1831.000	44.47	74.00	-29.53	69.99	-25.52	Peak
2	2746.500	45.70	74.00	-28.30	68.78	-23.08	Peak
3	3662.000	51.23	74.00	-22.77	72.24	-21.01	Peak
4	4577.500	38.21	74.00	-35.79	56.80	-18.59	Peak
5	5493.000	40.35	74.00	-33.65	57.72	-17.37	Peak
6	6408.500	43.68	74.00	-30.32	57.77	-14.09	Peak
7	7324.000	45.16	74.00	-28.84	57.76	-12.60	Peak
8	8239.500	44.60	74.00	-29.40	56.09	-11.49	Peak
9	9155.000	45.17	74.00	-28.83	55.04	-9.87	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.

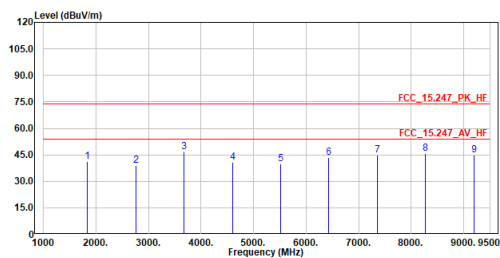
Site :HC-CB04
 Condition :3m ,Vertical
 Mode :TX_915.5MHz
 Test By :Ling



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1831.000	44.94	74.00	-29.06	70.46	-25.52	Peak
2	2746.500	45.76	74.00	-28.24	68.84	-23.08	Peak
3	3662.000	51.30	74.00	-22.70	72.31	-21.01	Peak
4	4577.500	39.82	74.00	-34.18	58.41	-18.59	Peak
5	5493.000	39.98	74.00	-34.02	57.35	-17.37	Peak
6	6408.500	42.09	74.00	-31.91	56.18	-14.09	Peak
7	7324.000	44.94	74.00	-29.06	57.54	-12.60	Peak
8	8239.500	45.41	74.00	-28.59	56.90	-11.49	Peak
9	9155.000	45.98	74.00	-28.02	55.85	-9.87	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.

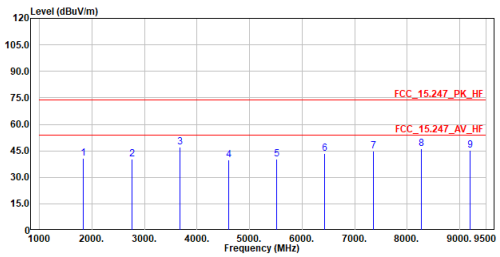
Site :HC-CB04
 Condition :3m ,Horizontal
 Mode :TX_919.5MHz
 Test By :Ling



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1839.000	41.06	74.00	-32.94	66.55	-25.49	Peak
2	2758.500	38.86	74.00	-35.14	61.90	-23.04	Peak
3	3678.000	46.51	74.00	-27.49	67.45	-20.94	Peak
4	4597.500	40.65	74.00	-33.35	59.19	-18.54	Peak
5	5517.000	39.90	74.00	-34.10	57.23	-17.33	Peak
6	6436.500	43.34	74.00	-30.66	57.29	-13.95	Peak
7	7356.000	44.71	74.00	-29.29	57.26	-12.55	Peak
8	8275.500	45.61	74.00	-28.39	57.01	-11.40	Peak
9	9195.000	44.97	74.00	-29.03	54.77	-9.80	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.

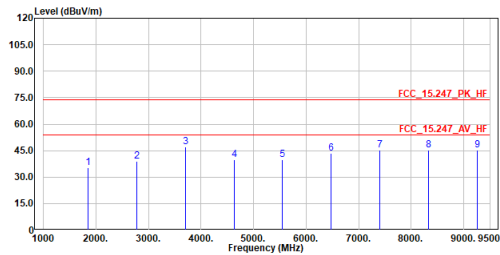
Site :HC-CB04
 Condition :3m ,Vertical
 Mode :TX_919.5MHz
 Test By :Ling



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1839.000	40.75	74.00	-33.25	66.24	-25.49	Peak
2	2758.500	40.37	74.00	-33.63	63.41	-23.04	Peak
3	3678.000	46.92	74.00	-27.08	67.86	-20.94	Peak
4	4597.500	39.89	74.00	-34.11	58.43	-18.54	Peak
5	5517.000	40.16	74.00	-33.84	57.49	-17.33	Peak
6	6436.500	43.61	74.00	-30.39	57.56	-13.95	Peak
7	7356.000	45.05	74.00	-28.95	57.60	-12.55	Peak
8	8275.500	46.38	74.00	-27.62	57.78	-11.40	Peak
9	9195.000	45.32	74.00	-28.68	55.12	-9.80	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.

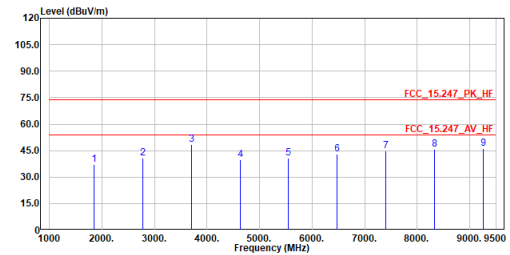
Site :HC-CB04
 Condition :3m ,Horizontal
 Mode :TX_925.5MHz
 Test By :Ling



No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1851.000	35.21	74.00	-38.79	60.66	-25.45	Peak
2	2776.500	38.74	74.00	-35.26	61.74	-23.00	Peak
3	3702.000	47.16	74.00	-26.84	67.99	-20.83	Peak
4	4627.500	39.66	74.00	-34.34	58.10	-18.44	Peak
5	5553.000	39.80	74.00	-34.20	57.04	-17.24	Peak
6	6478.500	43.40	74.00	-30.60	57.13	-13.73	Peak
7	7404.000	45.24	74.00	-28.76	57.73	-12.49	Peak
8	8329.500	45.46	74.00	-28.54	56.72	-11.26	Peak
9	9255.000	45.21	74.00	-28.79	54.91	-9.70	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_925.5MHz
 Test By :Ling

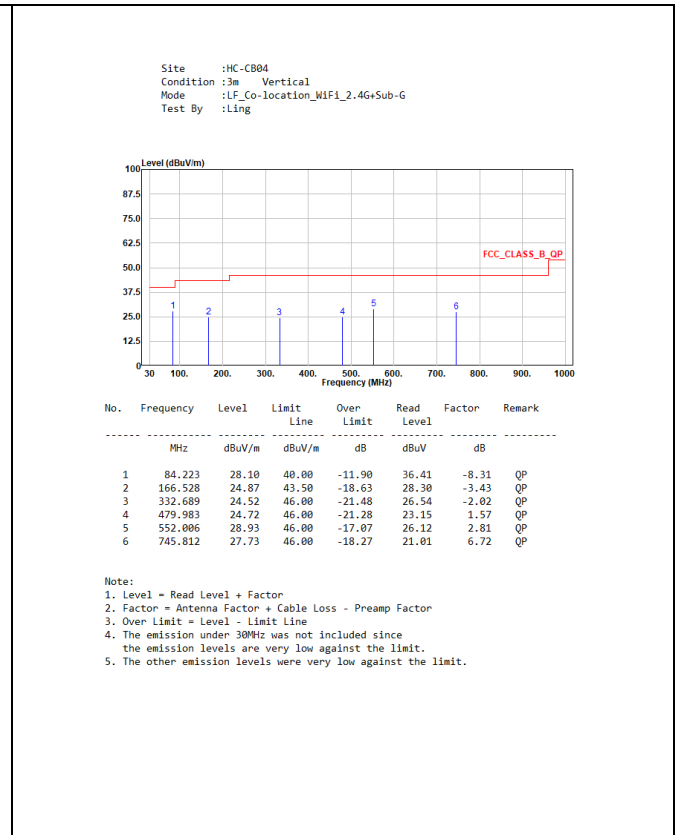
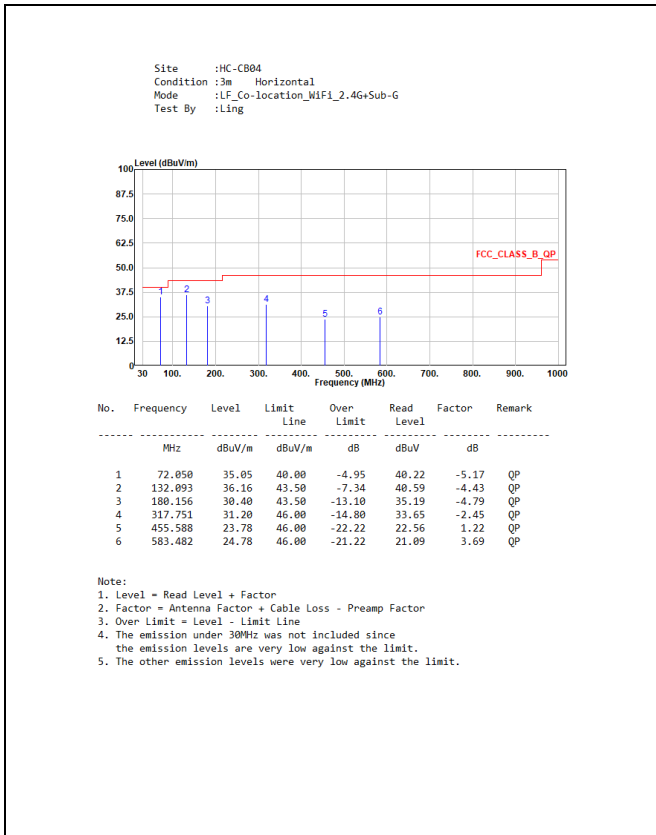


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1851.000	37.26	74.00	-36.74	62.71	-25.45	Peak
2	2776.500	40.75	74.00	-33.25	63.75	-23.00	Peak
3	3702.000	48.23	74.00	-25.77	69.06	-20.83	Peak
4	4627.500	39.84	74.00	-34.16	58.28	-18.44	Peak
5	5553.000	40.89	74.00	-33.11	58.13	-17.24	Peak
6	6478.500	43.15	74.00	-30.85	56.88	-13.73	Peak
7	7404.000	45.02	74.00	-28.98	57.51	-12.49	Peak
8	8329.500	45.70	74.00	-28.30	56.96	-11.26	Peak
9	9255.000	46.01	74.00	-27.99	55.71	-9.70	Peak

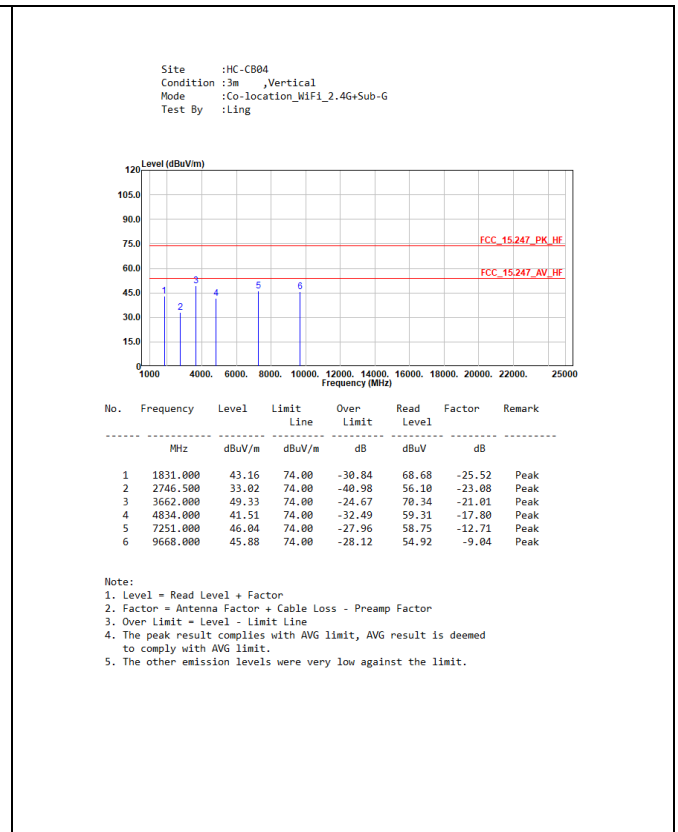
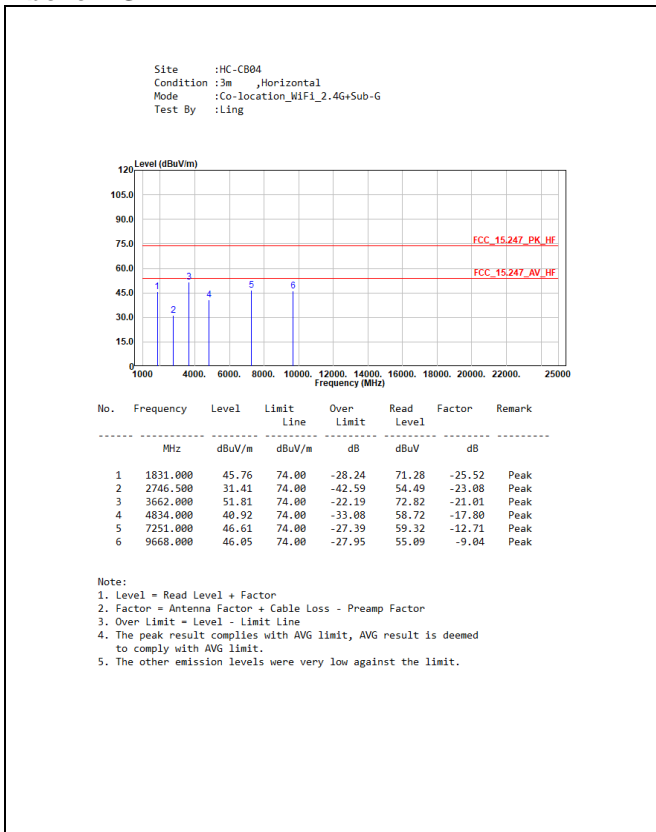
Note:
 1. Level = Read Level + Factor
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor
 3. Over Limit = Level - Limit Line
 4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
 5. The other emission levels were very low against the limit.

Appendix F. Test Result of Radiated Emissions Co-location

WiFi 2.4 GHz (802.11b, 2417 MHz) + Sub-GHz (915.5 MHz) 30 MHz ~ 1 GHz:



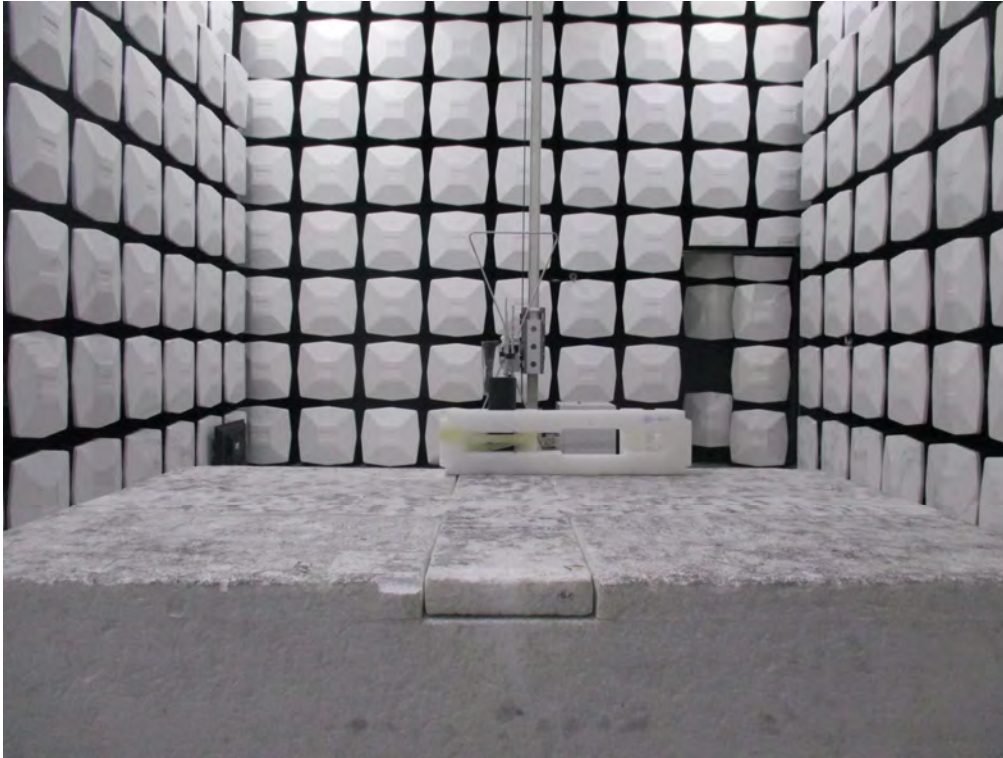
Above 1 GHz:



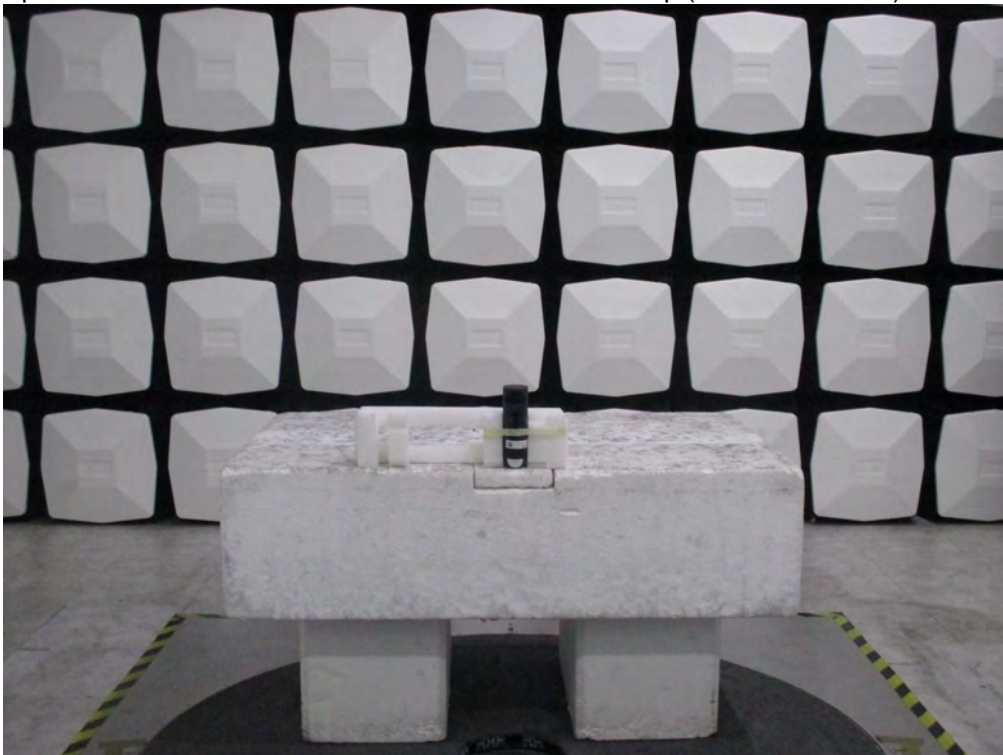
Appendix G. Test Setup Photograph

<Radiated Emission>

Description : Front View of Radiated Emission Test Setup (30 MHz ~ 1 GHz)



Description : Back View of Radiated Emission Test Setup (30 MHz ~ 1 GHz)



Description : Front View of Radiated Emission Test Setup (Above 1 GHz)



Description : Back View of Radiated Emission Test Setup (Above 1 GHz)

